U.S. Department of Homeland Security
500 C Street, SW
Washington, DC 20472

FEMA

FEB - 8 2008

Mr. Jim Caldwell
Regional Administrator
U.S. Nuclear Regulatory Commission
Region III
2443 Warrenville Road
Lisle, Illinois 60542-4351

Dear Mr. Caldwell:

Enclosed is one copy of the Final Report for the November 6, 2007, Radiological Emergency Preparedness (REP) Full Participation Plume Exposure Pathway Exercise for the Monticello Nuclear Generating Plant. Under separate cover, three copies of this report are being sent to the Director, Preparedness Branch of the Minnesota Division of Homeland Security and Emergency Management for distribution to the counties of Sherburne and Wright, along with an additional copy to the State. The State of Minnesota, Sherburne and Wright Counties, and the utility owner/operator, Xcel Energy, Incorporated, participated in this exercise. The Final Report was prepared by the U.S. Department of Homeland Security/Federal Emergency Management Agency (DHS/FEMA) Region V, Radiological Emergency Preparedness Program.

There were no Deficiencies identified during this exercise for the State of Minnesota, or for Sherburne and Wright Counties. There were no new Areas Requiring Corrective Action (ARCAs) identified for the State of Minnesota. There was one ARCA from a previous exercise for the State of Minnesota that was resolved. There were no previous ARCAs for Sherburne County that were unresolved. There was one ARCA identified for Sherburne County that was successfully re-demonstrated during the exercise. There were no previous ARCAs for Wright County that were unresolved. There was one ARCA identified for Wright County that was successfully re-demonstrated during the exercise. Chapter 4 of the Final Report contains a detailed discussion of the ARCAs and the evaluation results of this exercise.

Based on the results of the November 6, 2007, exercise, the offsite radiological emergency response plans and preparedness for the State of Minnesota and the affected local jurisdictions, site-specific to the Monticello Nuclear Generating Plant, can be implemented and are adequate to provide reasonable assurance that appropriate measures can be taken offsite to protect the health and safety of the public in the event of a radiological emergency at the site. Therefore, Title 44 CFR, Part 350, approval of the offsite radiological emergency response plans and preparedness for the State of Minnesota site-specific to the Monticello Nuclear Generating Plant, granted on December 4, 1981, remains in effect.

If you should have any questions, please contact William E. King, Chairman, Regional Assistance Committee, DHS/FEMA Region V, at (312) 408-5575.

Sincerely,

Vanessa E. Quinn
Acting Director
Technological Hazards Division
National Preparedness Directorate

Enclosure

cc: Mr. Anthony McMurtray, Chief
Inspection and Communication Section
U.S. Nuclear Regulatory Commission

NRC Public Document Room
Attn: Mr. Ron Schmitt

Monticello Nuclear Generating Plant

Exercise Report - 2007-11-06

Final Report - Radiological Emergency Preparedness (REP) Program

2008-02-06

FEMA

FEMA

Exercise Report

Monticello Nuclear Generating Plant

Exercise Date: 2007-11-06

Report Date: 2008-02-06

U.S. DEPARTMENT OF HOMELAND SECURITY

Federal Emergency Management Agency

REP Program

536 S. Clark St. 6th floor

Chicago, IL 60605

Table of Contents

1. Executive Summary

On November 6, 2007, a Radiological Emergency Preparedness (REP) Full Participation Plume Exposure Pathway Exercise was conducted for the 10-mile Emergency Planning Zone (EPZ) around the Monticello Nuclear Generating Plant (MNGP) by the U. S. Department of Homeland Security (DHS)/Federal Emergency Management Agency (FEMA). The purpose of the exercise was to assess the level of State and local preparedness in responding to a radiological emergency. This exercise was held in accordance with DHS/FEMA policies and guidance concerning the exercise of State and local radiological emergency response plans (RERPs) and procedures.

The most recent exercise at this site was conducted on August 30, 2005. The qualifying emergency preparedness exercise was conducted on January 7, 1981.

DHS/FEMA wishes to acknowledge the efforts of the many individuals in the State of Minnesota and the Counties of Sherburne and Wright who participated in this exercise.

Protecting the public health and safety is the full-time job of some of the exercise participants and an additional assigned responsibility for others. Still others have willingly sought this responsibility by volunteering to provide vital emergency services to their communities. Cooperation and teamwork on the part of all participants was evident during this exercise.

This Final Report contains the final evaluation of the biennial exercise and the evaluation of the following out-of-sequence activities: State of Minnesota: Evacuee and Emergency Worker Monitoring, Decontamination, Registration, and Vehicle Monitoring and Decontamination were demonstrated at the Princeton High School; Congregate Care Center was demonstrated at the South Elementary School; Medical Services (MS-1) demonstration involving transporting and caring for a potentially contaminated and injured individual at the Fairview Northland Regional Hospital; and State of Minnesota Traffic and Access Control Point; Sherburne County Traffic and Access Control Point; Wright County: Rockford Fire Department Emergency Worker and Vehicle Monitoring and Decontamination Center; Implementation of Protective Actions - School Interview (EV-2) – Monticello School District (Monticello Middle School); Implementation of Protective Actions – School Interview (EV-2) – Saint Michael-Albertville School District (Fieldstone Elementary School); Maple Lake School District.

The State and local organizations, except where noted in this report, demonstrated knowledge of their emergency response plans and procedures and adequately implemented them.

There were no Deficiencies assessed to the State of Minnesota, Sherburne County, or Wright County.

There were no new Areas Requiring Corrective Action (ARCAs) identified for the State of Minnesota. There was one ARCA from a previous exercise for the State of Minnesota that was resolved. There were no previous ARCAs for Sherburne County that were unresolved. There was one ARCA identified for Sherburne County that was successfully re-demonstrated during the exercise. There were no previous ARCAs for Wright County that were unresolved. There was one ARCA identified for Wright County that was successfully re-demonstrated during the exercise.

The ARCA for the State of Minnesota that was resolved was identified under Criterion 3.a.1, implementation of Emergency Worker Exposure Control. In the prior exercise on August 30, 2005, Emergency Workers assigned to Vehicle Monitoring and Decontamination at the Princeton Reception Center were unfamiliar with Emergency Worker Exposure Control protocols. On November 6, 2007, Emergency Workers assigned to Vehicle Monitoring and Decontamination demonstrated knowledge and practices consistent with procedures.

Sherburne County received one ARCA which was identified under Criterion 3.b.1, Implementation of the potassium iodide decision. The Sherburne County Radiological Defense Officer (RDO) and staff assigned to provide radiological briefings to Emergency Workers at the Sherburne County Emergency Operations Center initially misadvised the Emergency Workers to use potassium iodide in spite of allergies to shellfish or iodine. This ARCA was successfully re-demonstrated during the exercise.

Wright County received one ARCA which was identified under Criterion 6.a.1, monitoring and decontamination of Evacuees and Emergency Workers, whereby Emergency Workers assigned to the Emergency Worker Monitoring and Decontamination Station at Rockford Fire Department did not effectively prevent the spread of contamination in accordance with their procedure. This ARCA was successfully re-demonstrated during the exercise.

2. Introduction

On December 7, 1979, the President directed FEMA to assume the lead responsibility for all off-site nuclear planning and response. FEMA's activities are conducted pursuant to 44 Code of Federal Regulations (CFR) Parts 350, 351, and 352. These regulations are a key element in the Radiological Emergency Preparedness (REP) Program that was established following the Three Mile Island Nuclear Station accident in March 1979.

FEMA Rule 44 CFR 350 establishes the policies and procedures for FEMA's initial and continued approval of State and local governments' radiological emergency planning and preparedness for commercial nuclear power plants. This approval is contingent, in part, on State and local governments' participation in joint exercises with licensees.

FEMA's responsibilities in radiological emergency planning for fixed nuclear facilities include the following:

• Taking the lead in off-site emergency planning and in the review and evaluation of RERPs and procedures developed by State and local governments;

• Determining whether such plans and procedures can be implemented on the basis of the evaluation of the plans and procedures conducted by State and local governments;

• Responding to requests by the U.S. Nuclear Regulatory Commission (NRC) pursuant to the Memorandum of Understanding between the NRC and FEMA dated June 17, 1993 (Federal Register, Vol. 58, No. 176, September 14, 1993); and

• Coordinating the activities of Federal agencies with responsibilities in the radiological emergency planning process:

- U.S. Department of Agriculture;
- U.S. Department of Energy;
- U.S. Department of Health and Human Services;
- U.S. Department of the Interior;
- U.S. Department of Transportation;
- U.S. Environmental Protection Agency;
- U.S. Food and Drug Administration; and
- U.S. Nuclear Regulatory Commission.

Representatives of these agencies serve on the FEMA Region V Regional Assistance Committee (RAC), which is chaired by FEMA.

Formal submission of the RERPs for the MNGP to FEMA Region V by the State of Minnesota and involved local jurisdictions occurred on February 1, 1983. Formal approval of these RERPs was granted by FEMA on May 10, 1985, under 44 CFR 350.

A REP Full Participation Plume Exposure Pathway Exercise was conducted on November 6, 2007 to assess the capabilities of State and local off-site emergency preparedness organizations in implementing their RERPs and procedures to protect the public health and safety during a radiological emergency involving the Monticello Nuclear Generating Plant. The purpose of this exercise report is to present the exercise results and findings on the performance of the off-site response organizations (ORO's) during a simulated radiological emergency.

The findings presented in this report are based on the evaluations of the Federal evaluation team, with final determinations made by the DHS/FEMA Region V RAC Chairperson and approved by DHS/FEMA Headquarters.

The criteria utilized in the FEMA evaluation process are contained in:

• NUREG-0654/FEMA-REP-1, Rev. 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980;

• FEMA-REP-14, "Radiological Emergency Preparedness Exercise Manual," September 1991; and

• FEMA "Radiological Emergency Preparedness: Exercise Evaluation Methodology" as published in the Federal Register Notice/Vol. 67, No. 80, dated April 25, 2002.

Section III of this report, entitled "Exercise Overview," presents basic information and data relevant to the exercise. This section of the report contains a description of the plume pathway EPZ, a listing of all participating jurisdictions and functional entities which were evaluated, and a tabular presentation of the time of actual occurrence of key exercise events and activities.

Section IV of this report, entitled "Exercise Evaluation and Results," presents detailed information on the demonstration of applicable exercise criteria at each jurisdiction or functional entity evaluated in a jurisdiction-based, issues only format. This section also contains: (1) descriptions of all Deficiencies and ARCAs assessed during this exercise, recommended corrective actions for each identified exercise issue; and (2) descriptions of unresolved ARCAs assessed during previous exercises and the status of the ORO's efforts to resolve them.

3. Exercise Overview

Contained in this section are data and basic information relevant to the November 6, 2007, REP Full Participation Plume Exposure Pathway Exercise to test the off-site emergency response capabilities in the area surrounding the Monticello Nuclear Generating Plant. This section of the exercise report includes a description of the 10-mile Emergency Planning Zone (EPZ), a listing of all participating jurisdictions and functional entities which were evaluated, and a tabular presentation of the time of the actual occurrence of key exercise events and activities.

3.1. EPZ Description

The MNGP is located within the city limits of Monticello, Minnesota. The plant consists of approximately 1500 acres of land. The northwest and southwest sectors are mainly agricultural. The northeast and southeast sectors are urban and manufacturing. Part of this property is on the north bank of the Mississippi River in Sherburne County and part is on the south bank of Wright County. The northwestern suburbs of Minneapolis are about 30 miles southeast of the MNGP.

The 10-mile EPZ for the MNGP consists of a circle with the utility at the center point. The EPZ extends 10-miles outward in all directions from the plant for the plume exposure pathway planning zone and 50 miles outward for the IPZ. In the event of a serious accident, the plume exposure-planning zone will be in the area in which intensive efforts will be made to notify and protect residents and transient populations from exposure to radiation. The population in the MNGP 10-mile EPZ is 50,465. This figure represents the permanent population in the municipalities and unincorporated areas located in the 10-mile EPZ.

There are numerous lakes in the 10-mile EPZ, which are used for recreational purposes. Parts of Lake Saint Marie Park, Sand Dune State Forest and Game Refuge are within the 10-mile EPZ. The three major highways passing through the are Interstate 94, U.S. 10, and State Highways 25 and 55. Railroad access is available from the Burlington Northern. Major waterways are the Mississippi Scenic River and Crow River and the Elk River and Saint Francis River watersheds; however these waterways are not navigable. The Mississippi River flows from the northwest to southeast through the 10-mile EPZ. There are no major airports in the 10-mile EPZ.

The following sub-areas are included within the 10-mile EPZ: sub-areas 2, 5N, 5E, 5S, 5W, 10N, 10E, 10SE, 10S, 10SW, 10W, and 10NW.

3.2. Exercise Participants

Agencies and organizations of the following jurisdictions participated in the Monticello Nuclear Generating Plant exercise:

State Jurisdictions

- Emergency Medical Services Regulatory Board
- Office of the Governor
- Minnesota Department of Agriculture
- Minnesota Department of Education
- Minnesota Department of Health, Environmental Health
- Minnesota Department of Human Services
- Minnesota Department of Military Affairs
- Minnesota Department of Natural Resources
- Minnesota Department of Public Safety, Bureau of Criminal Apprehension
- Minnesota Department of Public Safety, Division of Homeland Security and Emergency Management
- Minnesota Department of Public Safety, Minnesota State Patrol
- Minnesota Department of Public Safety, Office of Communications
- Minnesota Department of Public Safety, State Fire Marshall
- Minnesota Department of Transportation
- Minnesota National Guard

Risk Jurisdictions

- Sherburne County Board of Commissioners
- Sherburne County Department of Agriculture
- Sherburne County Emergency Medical Services
- Sherburne County Emergency Services Director
- Sherburne County Public Works
- Sherburne County Radiological Officer
- Sherburne County Sheriff's Department
- Sherburne County Social Services
- Wright County Board of Commissioners
- Wright County Civil Defense Director/Wright County Nuclear Director
- Wright County Highway Department
- Wright County Human Services

- Wright County Radiological Officer
- Wright County Sheriffs Office

Support Jurisdictions

- Civil Air Patrol
- Maple Lake School District
- Monticello Fire Department
- Monticello School District
- St. Michael - Albertville School District
- Zimmerman Fire Department

Private Jurisdictions

- American Red Cross
- National Weather Service
- Nuclear Management Company
- The Salvation Army
- Sherburne County Radio Amateur Civil Emergency Service

Federal Jurisdictions

- U.S. Defense Coordinating Element

3.3. Exercise Timeline

Table 1, on the following page, presents the time at which key events and activities occurred during the Monticello Nuclear Generating Plant exercise held on November 6, 2007. Also included are times that notifications were made to the participating jurisdictions/functional entities.

Table 1 - Exercise Timeline
DATE: 2007-11-06, SITE: Monticello Nuclear Generating Plant, MN

Emergency Classification Level or Event	Time Utility Declared	Initial Warning Point (BCA)	Minnesota State EOC (SEOC)	PAC at SEOC	JIC at SEOC	Sherburne County - IWP	Sherburne County EOC
Unusual Event	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Alert	0738	N/A	0753	N/A	N/A	0754	0754
Site Area Emergency	0944	N/A	0959	0950	1009	N/A	0959
General Emergency	1127	N/A	1127	1117	1127	N/A	1127
Simulated Rad. Release Started	1127	N/A	1127	1113	1127	N/A	1127
Simulated Rad. Release Terminated	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Facility Declared Operational		24 Hours	0837	0836	0837	24 Hours	0824
Declaration of State of Emergency		N/A	1009	1012	N/A	N/A	1016
Exercise Terminated		N/A	1338	1338	1338	N/A	1340
Early Precautionary Actions: Agricultural Advisory 0-10 Miles: Shelter Livestock and Provide Protected Water and Feed		N/A	1009	1009	1011	N/A	N/A
1st Protective Action Decision: Evacuate Sub-Areas 2; 5E; and 5S, and Public to take KI		N/A	1129	1126	1135	N/A	1129
1st Siren Activation		N/A	N/A	N/A	N/A	N/A	1144
1st EAS or EBS Message		N/A	1146	1146	1146	N/A	N/A
2nd Protective Action Decision: Evacuate Sub-Areas 2; 5E; 5S; and 10SE, and Public to take KI		N/A	1305	1259	1305	N/A	1305
2nd Siren Activation		N/A	N/A	N/A	1315	N/A	1315
2nd EAS or EBS Message		N/A	1315	N/A	N/A	N/A	N/A
3rd Protective Action Decision: N/A		N/A	N/A	N/A	N/A	N/A	N/A
3rd Siren Activation		N/A	N/A	N/A	N/A	N/A	N/A
3rd EAS or EBS Message		N/A	N/A	N/A	N/A	N/A	N/A
4th Protective Action Decision: N/A		N/A	N/A	N/A	N/A	N/A	N/A
4th Siren Activation		N/A	N/A	N/A	N/A	N/A	N/A
4th EAS or EBS Message		N/A	N/A	N/A	N/A	N/A	N/A
5th Protective Action Decision: N/A		N/A	N/A	N/A	N/A	N/A	N/A
5th Siren Activation		N/A	N/A	N/A	N/A	N/A	N/A
5th EAS or EBS Message		N/A	N/A	N/A	N/A	N/A	N/A
6th Protective Action Decision: N/A		N/A	N/A	N/A	N/A	N/A	N/A
6th Siren Activation		N/A	N/A	N/A	N/A	N/A	N/A
6th EAS or EBS Message		N/A	N/A	N/A	N/A	N/A	N/A
KI Administration Decision: Administer KI to Emergency Workers and Immobile Population		N/A	1114	1114	1114	N/A	1114

Table 1 - Exercise Timeline
DATE: 2007-11-06, SITE: Monticello Nuclear Generating Plant, MN

Emergency Classification Level or Event	Time Utility Declared	Wright County IWP	Wright County EOC
Unusual Event	N/A	N/A	N/A
Alert	0738	0754	0754
Site Area Emergency	0944	N/A	0959
General Emergency	1127	N/A	1127
Simulated Rad. Release Started	1127	N/A	1127
Simulated Rad. Release Terminated	N/A	N/A	N/A
Facility Declared Operational		24 Hours	0825
Declaration of State of Emergency		N/A	1015
Exercise Terminated		N/A	1340
Early Precautionary Actions: Agricultural Advisory 0-10 Miles: Shelter Livestock and Provide Protected Water and Feed		N/A	N/A
1st Protective Action Decision: Evacuate Sub-Areas 2; 5E; and 5S, and Public to take KI		N/A	1129
1st Siren Activation		N/A	1144
1st EAS or EBS Message		N/A	N/A
2nd Protective Action Decision: Evacuate Sub-Areas 2; 5E; 5S; and 10SE, and Public to take KI		N/A	1305
2nd Siren Activation		N/A	1315
2nd EAS or EBS Message		N/A	N/A
3rd Protective Action Decision: N/A		N/A	N/A
3rd Siren Activation		N/A	N/A
3rd EAS or EBS Message		N/A	N/A
4th Protective Action Decision: N/A		N/A	N/A
4th Siren Activation		N/A	N/A
4th EAS or EBS Message		N/A	N/A
5th Protective Action Decision: N/A		N/A	N/A
5th Siren Activation		N/A	N/A
5th EAS or EBS Message		N/A	N/A
6th Protective Action Decision: N/A		N/A	N/A
6th Siren Activation		N/A	N/A
6th EAS or EBS Message		N/A	N/A
KI Administration Decision: Administer KI to Emergency Workers and Immobile Population		N/A	1114

4. Exercise Evaluation and Results

Contained in this section are the results and findings of the evaluation of all jurisdictions and functional entities, which participated in the November 6, 2007, exercise to test the off-site emergency response capabilities of State and local governments in the 10-mile EPZ surrounding the MNGP.

Each jurisdiction and functional entity was evaluated on the basis of its demonstration of criteria delineated in exercise criteria contained in Federal Register notice/Vol. 67, No. 80, dated April 25, 2002. Detailed information on the exercise criteria and the extent-of-play agreement used in this exercise are found in Appendix 3 of this report.

4.1. Summary Results of Exercise Evaluation

The matrix presented in Table 2, on the following page(s), presents the status of all exercise criteria from Federal Register notice/Vol. 67, No. 80, dated April 25, 2002, which were scheduled for demonstration during this exercise by all participating jurisdictions and functional entities. Exercise criteria are listed by number and the demonstration status of those criteria are indicated by the use of the following letters:

M - Met (No Deficiency or ARCAs assessed and no unresolved ARCAs from prior exercises)

D - Deficiency assessed

A - ARCA(s) assessed or unresolved ARCA(s) from prior exercise(s)

N - Not Demonstrated (Reason explained in Section 4.2)

Blank - Not Scheduled for demonstration

Table 2 - Summary of Exercise Evaluation (3 pages)

DATE: 2007-11-06 SITE: Monticello Nuclear Generating Plant, MN A: ARCA, D: Deficiency, M: Met		Initial Warning Point (BCA)	Minnesota State EOC (SEOC)	PAC at SEOC	JIC at SEOC	Public Inquiry Hotline at JIC - SEOC	State RPC at Sherburne County EOC	State RPC at Wright County EOC	State Helicopter at Sherburne County	RAD Tm Cmnd Van Maple Grove FD	RAD Team # 1 at Maple Grove FD	RAD Team # 2 at Maple Grove FD
Emergency Operations Management												
Mobilization	1a1	M	M	M	M		M	M		M	M	M
Facilities	1b1											
Direction and Control	1c1		M	M	M					M		
Communications Equipment	1d1	M	M	M	M	M			M	M	M	M
Equip & Supplies to support operations	1e1		M	M	M				M	M	M	M
Protective Action Decision Making												
Emergency Worker Exposure Control	2a1		M	M			M	M				
Radiological Assessment and PARs	2b1		M	M	M							
Decisions for the Plume Phase -PADs	2b2		M	M			M	M				
PADs for protection of special populations	2c1		M				M	M				
Rad Assessment and Decision making for the Ingestion Exposure Pathway	2d1											
Rad Assessment and Decision making concerning Relocation, Reentry, and Return	2e1											
Protective Action Implementation												
Implementation of emergency worker exposure control	3a1								M	M	M	M
Implementation of KI decision	3b1								M	M	M	M
Implementation of protective actions for special populations - EOCs	3c1											
Implementation of protective actions for Schools	3c2		M									
Implementation of traffic and access control	3d1		M									
Impediments to evacuation are identified and resolved	3d2		M									
Implementation of ingestion pathway decisions - availability/use of info	3e1											
Materials for Ingestion Pathway PADs are available	3e2											
Implementation of relocation, re-entry, and return decisions.	3f1											
Field Measurement and Analysis												
Adequate Equipment for Plume Phase Field Measurements	4a1										M	M
Field Teams obtain sufficient information	4a2									M		
Field Teams Manage Sample Collection Appropriately	4a3										M	M
Post plume phase field measurements and sampling	4b1											
Laboratory operations	4c1											
Emergency Notification and Public Info												
Activation of the prompt alert and notification system	5a1		M	M			M	M	M			
Activation of the prompt alert and notification system - Fast Breaker	5a2											
Activation of the prompt alert and notification system - Exception areas	5a3											
Emergency information and instructions for the public and the media	5b1		M	M	M	M	M	M				
Support Operations/Facilities												
Mon / decon of evacuees and emergency workers, and registration of evacuees	6a1											
Mon / decon of emergency worker equipment	6b1											
Temporary care of evacuees	6c1											
Transportation and treatment of contaminated injured individuals	6d1											

Table 2 - Summary of Exercise Evaluation (Continued. page 2/3)

DATE: 2007-11-06 SITE: Monticello Nuclear Generating Plant, MN A: ARCA, D: Deficiency, M: Met		State TACP at Sherburne County	State Evac and EW Mon	State Evac and EW Dcon	State Evac Veh Mon and Dcon	State Evac Registration	CCCC - South Elem. School	Fairview Northland Hosp.	Fairview Northland Hosp. Facility	Sherburne County - IWP	Sherburne County EOC	Sherburne County TACP
Emergency Operations Management												
Mobilization	1a1									M	M	
Facilities	1b1											
Direction and Control	1c1										M	
Communications Equipment	1d1	M	M	M	M			M	M	M	M	M
Equip & Supplies to support operations	1e1	M	M	M	M	M		M	M		M	M
Protective Action Decision Making												
Emergency Worker Exposure Control	2a1										M	
Radiological Assessment and PARs	2b1											
Decisions for the Plume Phase -PADs	2b2										M	
PADs for protection of special populations	2c1										M	
Rad Assessment and Decision making for the Ingestion Exposure Pathway	2d1											
Rad Assessment and Decision making concerning Relocation, Reentry, and Return	2e1											
Protective Action Implementation												
Implementation of emergency worker exposure control	3a1	M	M	M	M	M		M	M		M	M
Implementation of KI decision	3b1	M									M	M
Implementation of protective actions for special populations - EOCs	3c1										M	
Implementation of protective actions for Schools	3c2										M	
Implementation of traffic and access control	3d1	M									M	M
Impediments to evacuation are identified and resolved	3d2										M	
Implementation of ingestion pathway decisions - availability/use of info	3e1											
Materials for Ingestion Pathway PADs are available	3e2											
Implementation of relocation, re-entry, and return decisions.	3f1											
Field Measurement and Analysis												
Adequate Equipment for Plume Phase Field Measurements	4a1											
Field Teams obtain sufficient information	4a2											
Field Teams Manage Sample Collection Appropriately	4a3											
Post plume phase field measurements and sampling	4b1											
Laboratory operations	4c1											
Emergency Notification and Public Info												
Activation of the prompt alert and notification system	5a1										M	
Activation of the prompt alert and notification system - Fast Breaker	5a2											
Activation of the prompt alert and notification system - Exception areas	5a3											
Emergency information and instructions for the public and the media	5b1										M	
Support Operations/Facilities												
Mon / decon of evacuees and emergency workers, and registration of evacuees	6a1		M	M	M	M						
Mon / decon of emergency worker equipment	6b1											
Temporary care of evacuees	6c1						M					
Transportation and treatment of contaminated injured individuals	6d1							M	M			

Table 2 - Summary of Exercise Evaluation (Continued. page 3/3)

DATE: 2007-11-06 SITE: Monticello Nuclear Generating Plant, MN A: ARCA, D: Deficiency, M: Met		Sherburne County PIO	Wright County IWP	Wright County EOC	Wright County TACP	Wright County PIO	W Cnty EW Monitoring	W Cnty EW Decon Cntr	W Cnty Mon/Decon EW Equip/Veh	Monticello Schools EV-2	St. Michael - Albertville Schools EV-	Maple Lake Schools EV-2
Emergency Operations Management												
Mobilization	1a1	M	M	M		M						
Facilities	1b1											
Direction and Control	1c1			M								
Communications Equipment	1d1	M	M	M	M	M	M	M		M	M	M
Equip & Supplies to support operations	1e1			M	M		M	M	M	M	M	M
Protective Action Decision Making												
Emergency Worker Exposure Control	2a1			M								
Radiological Assessment and PARs	2b1											
Decisions for the Plume Phase -PADs	2b2			M								
PADs for protection of special populations	2c1			M								
Rad Assessment and Decision making for the Ingestion Exposure Pathway	2d1											
Rad Assessment and Decision making concerning Relocation, Reentry, and Return	2e1											
Protective Action Implementation												
Implementation of emergency worker exposure control	3a1			M	M		M	M	M			
Implementation of KI decision	3b1			M	M							
Implementation of protective actions for special populations - EOCs	3c1			M								
Implementation of protective actions for Schools	3c2			M						M	M	M
Implementation of traffic and access control	3d1			M	M							
Impediments to evacuation are identified and resolved	3d2			M								
Implementation of ingestion pathway decisions - availability/use of info	3e1											
Materials for Ingestion Pathway PADs are available	3e2											
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Activation of the prompt alert and notification system	5a1			M								
Activation of the prompt alert and notification system - Fast Breaker	5a2											
Activation of the prompt alert and notification system - Exception areas	5a3											
Emergency information and instructions for the public and the media	5b1	M		M		M						
Support Operations/Facilities												
Mon / decon of evacuees and emergency workers, and registration of evacuees	6a1						M	A				
Mon / decon of emergency worker equipment	6b1								M			
Temporary care of evacuees	6c1											
Transportation and treatment of contaminated injured individuals	6d1											

4.2. Status of Jurisdictions Evaluated

This subsection provides information on the evaluation of each participating jurisdiction and functional entity, in a jurisdiction based, issues only format. Presented below is a definition of the terms used in this subsection relative to objective demonstration status.

• Met - Listing of the demonstrated exercise objectives under which no Deficiencies or ARCAs were assessed during this exercise and under which no ARCAs assessed during prior exercises remain unresolved.

• Deficiency - Listing of the demonstrated exercise objectives under which one or more Deficiencies were assessed during this exercise. Included is a description of each Deficiency and recommended corrective actions.

• Area Requiring Corrective Action - Listing of the demonstrated exercise criterion under which one or more ARCAs was assessed during the current exercise or ARCAs assessed during prior exercises remain unresolved. Included is a description of the ARCAs assessed during this exercise and the recommended corrective action to be demonstrated before or during the next biennial exercise.

• Not Demonstrated - Listing of the exercise objectives which were not demonstrated as scheduled during this exercise and the reason they were not demonstrated.

• Prior ARCAs - Resolved - Description of ARCAs assessed during previous exercises which were resolved in this exercise and the corrective actions demonstrated.

• Prior ARCAs - Unresolved - Description of ARCAs assessed during prior exercises, which were not resolved in this exercise. Included is the reason the ARCAs remain unresolved and recommended corrective actions to be demonstrated before or during the next biennial exercise.

The following are definitions of the two types of exercise issues, which are discussed in this report.

• A Deficiency is defined in FEMA-REP-14 as "...an observed or identified inadequacy of organizational performance in an exercise that could cause a finding that offsite emergency preparedness is not adequate to provide reasonable assurance that appropriate protective measures can be taken in the event of a radiological emergency

to protect the health and safety of the public living in the vicinity of a nuclear power plant."

• An ARCA is defined in FEMA-REP-14 as "...an observed or identified inadequacy of organizational performance in an exercise that is not considered, by itself, to adversely impact public health and safety."

The DHS/FEMA has developed a standardized system for numbering exercise issues (Deficiencies and ARCAs). This system is used to achieve consistency in numbering exercise issues among DHS/FEMA Regions and site-specific exercise reports within each Region. It is also used to expedite tracking of exercise issues on a nationwide basis.

The identifying number for Deficiencies and ARCAs includes the following elements, with each element separated by a hyphen (-).

• Plant Site Identifier - A two-digit number corresponding to the Utility Billable Plant Site Code.

• Exercise Year - The last two digits of the year the exercise was conducted.

• Criterion Number - A two-digit number corresponding to the criteria numbers in the six Exercise Evaluation Areas described in Federal Register Notice/Vol. 67, No. 80 dated April 25, 2002, which amends FEMA-REP 14, Radiological Emergency Preparedness Exercise Manual.

• Issue Classification Identifier - (D = Deficiency, A = ARCA). Only Deficiencies and ARCAs are included in exercise reports. Plan Issues are reported to the State via a letter from the Regional Director. Therefore, standardized issue numbers are not assigned to Plan Issues.

• Exercise Issue Identification Number – A separate two (or three) digit indexing number assigned to each issue identified in the exercise.

4.2.1. State Jurisdictions

4.2.1.1. Minnesota State Intitial Warning Point (Bureau of Criminal Apprehension)

a. MET: 1.a.1, 1.d.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.2. Minnesota State Emergency Operations Center

a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.1, 2.b.2, 2.c.1, 3.c.2, 3.d.1, 3.d.2, 5.a.1, 5.b.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.3. Planning and Assessment Center

a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.1, 2.b.2, 5.a.1, 5.b.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.4. Minnesota Joint Information Center

a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.b.1, 5.b.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None

f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.5. Minnesota Public Inquiry Hotline at JIC - SEOC

a. MET: 1.d.1, 5.b.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.6. State Regional Program Coordinator in Sherburne County

a. MET: 1.a.1, 2.a.1, 2.b.2, 2.c.1, 5.a.1, 5.b.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.7. State Regional Program Coordinator in Wright County

a. MET: 1.a.1, 2.a.1, 2.b.2, 2.c.1, 5.a.1, 5.b.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.8. State Helicopter - Sherburne County Recreationalists

a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 5.a.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.9. State Radiological Accident Deployment Command Van at Maple Grove Central Fire Station # 2

a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 3.a.1, 3.b.1, 4.a.2.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.10. State Radiological Accident Deployment Team # 1 at Maple Grove Central Fire Station # 2

a. MET: 1.a.1, 1.d.1, 1.e.1, 3.a.1, 3.b.1, 4.a.1, 4.a.3.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.11. State Radiological Accident Deployment Team # 2 at Maple Grove Central Fire Station # 2

a. MET: 1.a.1, 1.d.1, 1.e.1, 3.a.1, 3.b.1, 4.a.1, 4.a.3.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None

e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.12. State Traffic and Access Control Point at Sherburne County EOC

a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 3.d.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.13. State Evacuee and Emergency Worker Monitoring at Princeton High School

a. MET: 1.d.1, 1.e.1, 3.a.1, 6.a.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.14. State Evacuee and Emergency Worker Decontamination at Princeton High School

a. MET: 1.d.1, 1.e.1, 3.a.1, 6.a.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.15. State Evacuee Vehicle Monitoring and Decontamination at Princeton High School

a. MET: 1.d.1, 1.e.1, 3.a.1, 6.a.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: 3.a.1.

ISSUE NO.: 39-05-3a1-A-02

ISSUE: The Princeton Fire and Rescue Department personnel assigned to Evacuee Vehicle Monitoring did not know how to read their Direct-Reading Dosimeters (DRD), were not aware of the purpose and proper use of a personally assigned Thermoluminescent Dosimeter (TLD), were not aware to comply with the requirement to read the DRD every 30 minutes, were not aware that the accumulated dose action level as read on the DRD was 150 mR, and did not know that 3 R was the total whole body exposure limit.

CORRECTIVE ACTION DEMONSTRATED: The Vehicle Monitoring and Decontamination personnel properly wore their dosimetry (DRD and TLD), periodically reading the DRD and passing the information to the Registration Center recorder over the radio. The personnel were interviewed and described and demonstrated the proper method of reading the DRD's. All personnel interviewed knew there administrative reporting limit of 150 mR, Turn back limit of 1R and Total exposure limit of 3R. The Vehicle Monitoring and Decontamination personnel also knew where and to whom to return their dosimetry at the conclusion of the emergency or mission.

f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.16. State Evacuee Registration at Princeton High School

a. MET: 1.e.1, 3.a.1, 6.a.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None

f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.17. State Congregate Care Center at South Elementary School

a. MET: 6.c.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.18. State Medical Services-1 Transportation Fairview Northland Hospital

a. MET: 1.d.1, 1.e.1, 3.a.1, 6.d.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.1.19. State Medical Services-1 Facility Fairview Northland Hospital

a. MET: 1.d.1, 1.e.1, 3.a.1, 6.d.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.2. Risk Jurisdictions

4.2.2.1. Sherburne County - Initial Warning Point

a. MET: 1.a.1, 1.d.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.2. Sherburne County Emergency Operations Center

a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 3.d.2, 5.a.1, 5.b.1.
b. AREAS REQUIRING CORRECTIVE ACTION: 3.b.1.

ISSUE NO.: 39-07-3b1-A-01

ISSUE: KI and appropriate instructions are available should a decision to recommend use of KI be made. Appropriate record keeping of the admin of KI for emergency workers and institutionalized individuals (not general public) is maintained. (NUREG-0654, E.7., J.10.e.f.)

CONDITION: During the radiological briefing with the State Patrol Helicopter Pilots, conducted by the RDO Officer's assistant, it was stated that KI would be ingested even if the person ingesting it was allergic to Iodine.

POSSIBLE CAUSE: The RDO Staff briefer was unaware of the Plan and procedure provisions including a warning on the KI ingestion record card and/or the reference in the Sherburne County Emergency Response Plan (Annex H, II. C.) that specifically states that if a person is allergic to Iodine they will not be given KI and will not be assigned in an area of potential exposure.

REFERENCE: NUREG-0654 J.10.e

EFFECT: Emergency workers that were allergic to KI could have had an allergic reaction because they were given incorrect KI instructions.

CORRECTIVE ACTION DEMONSTRATED: On Thursday, November 8, 2007, re-demonstration EW briefing was conducted at the Sherburne County EOC. The briefer provided a dosimetry kit with the appropriate dosimetry and KI. He correctly explained the usage of KI, as provided per the Plan, procedure and manufacturers instructions. He stated that ingestion of KI was voluntary and that if an individual were allergic to Iodine, or shellfish, the individual would need to notify their supervisor immediately of the allergy and that the Plan provides for reassignment to a position outside the 10-mile Emergency Planning Zone. The briefer reminded the emergency worker that he was not to take KI unless the order was given via the EOC.

c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.3. Sherburne County Traffic and Access Control Point

a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 3.d.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.4. Sherburne County Public Information Officer at the State JIC

a. MET: 1.a.1, 1.d.1, 5.b.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.5. Wright County Initial Warning Point

a. MET: 1.a.1, 1.d.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.6. Wright County Emergency Operations Center

a. MET: 1.a.1, 1.c.1, 1.d.1, 1.e.1, 2.a.1, 2.b.2, 2.c.1, 3.a.1, 3.b.1, 3.c.1, 3.c.2, 3.d.1, 3.d.2, 5.a.1, 5.b.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.7. Wright County Traffic and Access Control Point

a. MET: 1.d.1, 1.e.1, 3.a.1, 3.b.1, 3.d.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.8. Wright County Public Information Officer at the State JIC

a. MET: 1.a.1, 1.d.1, 5.b.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None

d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.9. Wright County Emergency Worker Monitoring at Rockford Decontamination Center

a. MET: 1.d.1, 1.e.1, 3.a.1, 6.a.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.10. Wright County Emergency Worker Decontamination at Rockford Emergency Worker Decontamination Center

a. MET: 1.d.1, 1.e.1, 3.a.1.
b. AREAS REQUIRING CORRECTIVE ACTION: 6.a.1.

ISSUE NO.: 39-07-6a1-A-02

ISSUE: Reception center/emergency worker facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees and/or emergency workers. (NUREG-0654, J.10.h., K.5.b)

CONDITION: The first emergency worker was found to have contamination above the limit of 300 cpm greater than background. Both of the emergency worker's hands were contaminated. At this point, the contaminated emergency worker was handed the Emergency Worker Survey & Decontamination (EWS&D) Form and instructed to proceed directly to Station #5 for decontamination. The worker arrived at Station #5 and handed the EWS&D form to the Monitor at Station #5.

POSSIBLE CAUSE: The Wright County Standard Operation Procedure

states that the Monitor should hand carry the EWS&D form to the decontamination station Monitor. The Monitor at the initial monitoring station did not follow the procedure guidance for handling the EWS&D form.

REFERENCE: NUREG-0654, J.10.h; J.12; K.5.9

EFFECT: Because the EWS&D form was handled by the contaminated Emergency Worker, and the Emergency Worker then passed the form to another previously non-contaminated worker, contamination could spread from the initial monitoring station to the decontamination station Monitors and their survey equipment.

CORRECTIVE ACTION DEMONSTRATED: The Exercise Controller discussed the correct procedure for handling the EWS&D form to prevent cross contamination. This discussion was conducted with the Monitors at both the initial monitoring point and the decontamination station, Station #5.

Following these discussions, the participants were permitted to conduct a redemonstration. In the redemonstration, the initial Monitor maintained distance while accompanying the contaminated emergency worker to the decontamination station, and hand carrying the EWS&D Form directly to the decontamination station Monitor. The redemonstration was done in accordance with the procedure and additional interview questions were answered satisfactorily.

c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.11. Wright County Monitoring and Decontamination of Emergency Worker Equipment Including Vehicles at Rockford Decontamination

Center

a. MET: 1.e.1, 3.a.1, 6.b.1.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.12. Wright County School EV-2 Monticello Schools

a. MET: 1.d.1, 1.e.1, 3.c.2.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.13. Wright County School EV-2 St. Michael - Albertville Schools

a. MET: 1.d.1, 1.e.1, 3.c.2.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None
e. PRIOR ISSUES - RESOLVED: None
f. PRIOR ISSUES - UNRESOLVED: None

4.2.2.14. Wright County School EV-2 Maple Lake Schools

a. MET: 1.d.1, 1.e.1, 3.c.2.
b. AREAS REQUIRING CORRECTIVE ACTION: None
c. DEFICIENCY: None
d. NOT DEMONSTRATED: None

e. PRIOR ISSUES - RESOLVED: None

f. PRIOR ISSUES - UNRESOLVED: None

APPENDIX 1

ACRONYMS AND ABBREVIATIONS

ARC	American Red Cross
ARES	Amateur Radio Emergency Service
ATWS	Anticipated Transient Without Scram
CAD	Computer Aided Dispatch
CCC	Congregate Care Center
CJIS	Computer Justice Information System
CR	County Road
DRD	Direct - Reading Dosimeter
DS	District Superintendent
EAS	Emergency Alert System
ECL	Emergency Classification Level
ED	Emergency Department
EMSRB	Emergency Medical Services Regulatory Board
ENRF	Emergency Notification Report Form
EOC	Emergency Operations Center
EOF	Emergency Operation Facility
EPZ	Emergency Planning Zone
ER	Emergency Room
ERP	Emergency Response Plan
ESD	Emergency Services Director
EW	Emergency Worker
FAA	Federal Aviation Administration
FEMA	Federal Emergency Management Agency
GAR	Governors Authorized Representative
GE	General Emergency
HSEM	Homeland Security Emergency Management
IPZ	Ingestion Planning Zone
ISD	Intermediate School District
IWP	Initial Warning Point
JIC	Joint Information Center
LAN	Local Area Network
MDO	Minnesota Duty Officer
MNGP	Monticello Nuclear Generating Plant
MSP	Minnesota State Patrol
MSRB	Medical Services Regulatory Board
NMC	Nuclear Management Company
NRC	Nuclear Regulatory Commission
OC	Operations Chief
ORO	Offsite Response Organizations
PAD	Protective Active Decision
PAG	Protective Action Guide
PAR	Protective Action Recommendation
PC	Planning Chief

PIO	Public Information Officer
RAC	Regional Assistance Committee
RACES	Radio Amateur Civil Emergency Service
RAD	Radiological Accident Deployment
RC	Reception Center
RDO	Radiological Defense Officer
REA	Radiation Emergency Area
REP	Radiological Emergency Preparedness
RPS	Radiological Protection Specialist
RPT	Radiation Protection Technician
RSO	Radiation Safety Officer
SAE	Site Area Emergency
SEOC	State Emergency Operations Center
SIM	Site Incident Manager
SNB	Special News Bulletin
SOP	Standard Operating Procedure
TEDE	Total Effective Dose Equivalent
TLD	Thermo Luminescent Dosimeter

APPENDIX 2

EXERCISE EVALUATORS AND TEAM LEADERS

The following is a list of the personnel who evaluated the Monticello Nuclear Generating Plant REP Full Participation Plume Exposure Pathway exercise on November 6, 2007. Evaluator Team Leaders are indicated by an asterisk "(*)" before their names. The organization which each evaluator represents is indicated by the following abbreviations:

DHS/FEMA	Department of Homeland Security/Federal Emergency Management Agency
ICF	ICF Consulting
U. S. DOT	U. S. Department of Transportation
U. S. EPA	U. S. Environmental Protection Agency

TITLE	NAME	ORGANIZATION
Radiological Assistance Committee, Chairman	William E. King	DHS/FEMA
Exercise Director	Dwaine Warren	DHS/FEMA
Site Specialist	Harral Logaras	DHS/FEMA

DATE: 2007-11-06, SITE: Monticello Nuclear Generating Plant, MN

LOCATION	EVALUATOR	AGENCY
Minnesota State Intitial Warning Point (Bureau of Criminal Apprehension)	Delwyn Kinsley	DHS/FEMA
Minnesota State Emergency Operations Center	Doug Himle Delwyn Kinsley *Harral Logaras	ICF DHS/FEMA DHS/FEMA
Planning and Assessment Center	Ronald Biernacki Richard Grundstrom	ICF ICF
Minnesota Joint Information Center	William Vocke	ICF
Minnesota Public Inquiry Hotline at JIC - SEOC	William Vocke	ICF
State Regional Program Coordinator in Sherburne County	Carolyn Sturghill	DHS/FEMA
State Regional Program Coordinator in Wright County	Sandra Bailey	DHS/FEMA
State Helicopter - Sherburne County Recreationalists	Terry Blackmon	ICF
State Radiological Accident Deployment Command Van at Maple Grove Central Fire Station # 2	Richard Smith	ICF
State Radiological Accident Deployment Team # 1 at Maple Grove Central Fire Station # 2	Reggie Rodgers	ICF
State Radiological Accident Deployment Team # 2 at Maple Grove Central Fire Station # 2	Gene Jablonowski	U.S. EPA
State Traffic and Access Control Point at Sherburne County EOC	Tracey Green	ICF
State Evacuee and Emergency Worker Monitoring at Princeton High School	Tracey Green	ICF
State Evacuee and Emergency Worker Decontamination at Princeton High School	Reggie Rodgers	ICF
State Evacuee Vehicle Monitoring and Decontamination at Princeton High School	Delwyn Kinsley	DHS/FEMA
State Evacuee Registration at Princeton High School	Richard Smith	ICF
State Congregate Care Center at South Elementary School	Richard Smith	ICF
State Medical Services-1 Transportation Fairview Northland Hospital	Reggie Rodgers	ICF
State Medical Services-1 Facility Fairview Northland Hospital	Ronald Biernacki	ICF
Sherburne County - Initial Warning Point	Mike Hammond	DHS-FEMA
Sherburne County Emergency Operations Center	Carl Bebrich Frank Cordaro *Carolyn Sturghill	DHS/FEMA ICF DHS/FEMA
Sherburne County Traffic and Access Control Point	Mike Hammond	DHS-FEMA
Sherburne County Public Information Officer at the State JIC	William Vocke	ICF
Wright County Initial Warning Point	Jeffry McSpaden	U.S. DOT
Wright County Emergency Operations Center	*Sandra Bailey Robert Duggleby Jeffry McSpaden	DHS/FEMA ICF U.S. DOT
Wright County Traffic and Access Control Point	David Seebart	ICF
Wright County Public Information Officer at the State JIC	William Vocke	ICF
Wright County Emergency Worker Monitoring at Rockford Decontamination Center	David Seebart	ICF
Wright County Emergency Worker Decontamination at Rockford Emergency Worker Decontamination Center	Tracey Green	ICF
Wright County Monitoring and Decontamination of Emergency Worker Equipment Including Vehicles at Rockford Decontamination Center	Gene Jablonowski	U.S. EPA
Wright County School EV-2 Monticello Schools	Terry Blackmon	ICF

Wright County School EV-2 St. Michael - Albertville Schools	Carl Bebrich	DHS/FEMA
Wright County School EV-2 Maple Lake Schools	Robert Duggleby	ICF
* Team Leader		

APPENDIX 3

EXERCISE CRITERIA AND EXTENT-OF-PLAY AGREEMENT

This appendix lists the exercise criteria, which were scheduled for demonstration in the Monticello Nuclear Generating Plant REP Full Participation Plume Exposure Pathway exercise on November 6, 2007, and the off-site extent-of-play agreement approved by FEMA Region V on October 17, 2007.

The exercise criteria, contained in the FEMA "Radiological Emergency Preparedness Exercise Evaluation Methodology; Notice," as published in the Federal Register Notice/Vol 67, dated April 25, 2002, represent a functional translation of the planning standards and evaluation criteria of NUREG-0654/FEMA-REP-1, Rev. 1, "Criteria for the Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants," November 1980.

Because the exercise criteria are intended for use at all nuclear power plant sites, and because of variations among offsite plans and procedures, an extent-of-play agreement is prepared by the State and approved by DHS/FEMA to provide evaluators with guidance on expected actual demonstration of the criteria.

Exercise Criteria
Listed below are the specific radiological emergency preparedness criteria scheduled for demonstration during this exercise.

EVALUATION AREA 1 - EMERGENCY OPERATIONS MANAGEMENT

SUB-ELEMENT 1.a - Mobilization

Criterion 1.a.1 – OROs use effective procedures to alert, notify, and mobilize emergency personnel and activate facilities in a timely manner.

SUB-ELEMENT 1.c – Direction and Control

Criterion 1.c.1 – Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible.

SUB-ELEMENT 1.d – Communications Equipment

Criterion 1.d.1 – At least two communications systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations.

SUB-ELEMENT 1.e – Equipment and Supplies to Support Operations

Criterion 1.e.1 – Equipment, maps, displays, dosimetry, potassium iodide (KI), and other supplies are sufficient to support emergency operations.

EVALUATION AREA 2 - PROTECTIVE ACTION DECISION-MAKING

SUB-ELEMENT 2.a - Emergency Worker Exposure Control

Criterion 2.a.1 - OROs use a decision-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including the use of KI, is in place for emergency workers including provisions to authorize radiation exposure in excess of administrative limits or protective action guides.

SUB-ELEMENT 2.b – Radiological Assessment and Protective Action Recommendations and Decisions for the Plume Phase of the Emergency

Criterion 2.b.1 - Appropriate protective action recommendations are based on available information on plant conditions, field monitoring data, and licensee and ORO dose projections, as well as knowledge of onsite and offsite environmental conditions.

SUB-ELEMENT 2.b – Radiological Assessment and Protective Action Recommendations and Decisions for the Plume Phase of the Emergency

Criterion 2.b.2 - A decision-making process involving consideration of appropriate factors and necessary coordination is used to make protective action decisions (PAD) for the general public (including the recommendation for the use of KI, if ORO policy).

SUB-ELEMENT 2.c – Protective Action Decisions for the Protection of Special Populations

Criterion 2.c.1 - Protective action decisions are made, as appropriate, for special population groups.

EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION

SUB-ELEMENT 3.a – Implementation of Emergency Worker Exposure Control

Criterion 3.a.1 - The OROs issue appropriate dosimetry and procedures, and manage radiological exposure to emergency workers in accordance with the plans and procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart.

SUB-ELEMENT 3.b – Implementation of KI Decision

Criterion 3.b.1 - KI and appropriate instructions are available should a decision to recommend use of KI be made. Appropriate record keeping of the administration of KI for emergency workers and institutionalized individuals (not the general public) is maintained.

SUB-ELEMENT 3.c. – Implementation of Protective Actions for Special Populations

Criterion 3.c.1 – Protective action decisions are implemented for special populations other than schools within areas subject to protective actions.

SUB-ELEMENT 3.c. – Implementation of Protective Actions for Special Populations

Criterion 3.c.2 – OROs/School officials decide upon and implement protective actions for schools.

SUB-ELEMENT 3.d. – Implementation of Traffic and Access Control

Criterion 3.d.1. – Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel.

SUB-ELEMENT 3.d. – Implementation of Traffic and Access Control

Criterion 3.d.2 – Impediments to evacuation are identified and resolved.

EVALUATION AREA 4 – FIELD MEASUREMENT AND ANALYSIS

SUB-ELEMENT 4.a – Plume Phase Field Measurement and Analysis

Criterion 4a.1 – The field teams are equipped to perform field measurements of direct radiation exposure (cloud and ground shine) and to sample airborne radioiodine and particulates.

SUB-ELEMENT 4.a – Plume Phase Field Measurement and Analysis

Criterion 4a.2 – Field teams are managed to obtain sufficient information to help characterize the release and to control radiation exposure.

SUB-ELEMENT 4.a – Plume Phase Field Measurement and Analysis

Criterion 4a.3 – Ambient radiation measurements are made and recorded at appropriate locations, and radioiodine and particulate samples are collected. Teams will move to an appropriate low background location to determine whether any significant (as specified in the plan and/or procedures) amount of radioactivity has been collected on the sampling media.

EVALUATION AREA 5 – EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

SUB-ELEMENT 5.a – Activation of the Prompt Alert and Notification System

Criterion 5.a.1 – Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized offsite emergency

officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current FEMA REP Guidance.

SUB-ELEMENT 5.b. – Emergency Information and Instructions for the Public and the Media

Criterion 5.b.1. – OROs provide accurate emergency information and instructions to the public and the news media in a timely manner.

EVALUATION AREA 6: SUPPORT OPERATION/FACILITIES

SUB-ELEMENT 6.a – Monitoring and Decontamination of Evacuees and Emergency Workers, and Registration of Evacuees

Criterion 6.a.1: The reception center/emergency worker facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees and/or emergency workers. (NUREG-9654, J.10.h.; K.5.b.)

SUB-ELEMENT 6.b – Monitoring and Decontamination of Emergency Worker Equipment

Criterion 6.b.1 - The facility/ORO has adequate procedures and resources for the accomplishment of monitoring and decontamination of emergency worker equipment including vehicles.

SUB-ELEMENT 6.c – Temporary Care of Evacuees

Criterion 6.c.1 - Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines. [Found in MASS CARE – Preparedness Operations, ARC 3031] Managers demonstrate the procedures to assure that evacuees have been monitored for contamination and have been decontaminated as appropriate prior to entering congregate care facilities.

SUB-ELEMENT 6.d – Transportation and Treatment of Contaminated Injured Individuals

Criterion 6.d.1 - The facility/ORO has the appropriate space, adequate resources, and trained personnel to provide transport, monitoring, decontamination, and medical services to contaminated injured individuals.

EXTENT OF PLAY AGREEMENT
STATE OF MINNESOTA; SHERBURNE AND WRIGHT COUNTIES
FOR THE
MONTICELLO NUCLEAR GENERATING STATION EXERCISE
NOVEMBER 6, 2007

The Monticello Nuclear Generating Plant evaluated exercise for 2007 will take place on November 5, 6, and 7. A full scale Plume Phase demonstration will take place on November 6. Out of sequence demonstrations, e.g., Emergency Worker Decontamination, MS-1, EV-2, Reception Centers, will take place over the three day period. The State of Minnesota, Sherburne and Wright counties, Fairview Northland Hospital, North Memorial Ambulance and Rockford Fire Department are the off-site response organizations (ORO's) for this exercise.

Criteria that can be re-demonstrated immediately for credit, at the decision of the evaluator, include the following: 3.a.1, 3.d.1, 3.d.2, 4.a.3, 4.b.1, 6.a.1, 6.b.1, 6.c.1 and 6.d.1. Criteria that may be re-demonstrated, as approved on a case-by-case basis by the Chairperson of the Regional Assistance Committee, include the following: 2.a.1, 2.b.1, 2.b.2, 5.a.1 and 5.b.1.

EVALUATION AREA 1 – EMERGENCY OPERATIONS MANAGEMENT

SUB-ELEMENT 1.a - Mobilization

Criterion 1.a.1: OROs use effective procedures to alert, notify, and mobilize emergency personnel and activate facilities in a timely manner.

State of Minnesota

Minnesota State Emergency Operations Center (SEOC)

The Plume Phase Exercise will take place on November 6. The SEOC will be activated at an ALERT Emergency Classification Level (ECL). The Minnesota Duty Officer (MDO) at the BCA Operations Center, 1430 Maryland Avenue East, St. Paul, will take the initial call and make notifications by telephone and pager. The SEOC is located at 444 Cedar Street, Suite 223, St. Paul. State Regional Program Coordinators (RPCs) will act as liaisons to the counties and will be pre-positioned in the Sherburne and Wright County EOCs due to long travel time. The RPCs will wait an appropriate amount of time before interacting with other county responders.

FEMA NOTE: In accordance with the County Plans the emergency organization title and role of Operations Chief is assumed in Sherburne County by the Sherburne County Emergency Services Director and in Wright County by the Wright County Nuclear Director.

State Radiological Accident Deployment (RAD) Teams

The Plume Phase Exercise will take place on November 6. The State RAD Teams (field monitoring and sampling) will mobilize at the ALERT ECL. Notification will occur through the Minnesota Duty Officer to the Hennepin County Sheriff's Dispatch Center, who will in turn page

team members. The State RAD Teams will be pre-positioned at the Maple Grove Fire Station #2 located at 13450 Maple Knoll Way, Maple Grove MN. The Command Van will serve as a mobile field command post and will relocate as determined by the scenario. The Command Van will relay field measurements taken by the State RAD Teams to the PAC in the SEOC. Two State RAD Teams will take samples and a phantom team will be simulated by a controller in the Command Van. The FEMA evaluator may either ride in the Command Van or Command Van courier from Maple Grove Fire Station #2.

Joint Information Center (JIC)

The JIC will be activated at the ALERT Emergency Classification Level (ECL). Once activated, it will be maintained until the termination of the exercise. The work area for the JIC is located in the SEOC. The JIC's media briefing room is located in the lobby of the Department of Public Safety's office in Town Square (Suites 125-155, 444 Cedar Street, St. Paul). Both Sherburne and Wright County PIO Liaisons will be pre-positioned in the SEOC and will wait the appropriate amount of time before interacting.

Sufficient 24-hour staffing capability of key personnel will be presented at the exercise entrance meeting on November 5, 2007.

Sherburne County

The initial call will be received in the Sheriff's dispatch office of the Sherburne County Law Enforcement Center. The Sherburne County Law Enforcement Center and the County EOC are located at 13880 Highway 10, Elk River, MN.

Initial calls to activate EOC staff will begin in the dispatch office. Sherburne County will fully activate their EOC. A Sherburne County PIO Liaison will be pre-positioned in the SEOC during plume phase.

Sufficient 24-hour staffing capability of key personal will be presented at the exercise entrance meeting on November 5.

Recommendations from the State Operations Chief/Regional Program Coordinator will be communicated and coordinated with the County Operations Chief via telephone.

FEMA NOTE: In accordance with the County Plans, the emergency organization title and role of Operations Chief is assumed in Sherburne County by the Sherburne County Emergency Services Director. Evaluators are asked to use the title Sherburne County Operations Chief as appropriate in reports when reporting on observations of the Sherburne County Emergency Services Director when he or she performing in the role Sherburne County Operations Chief.

Wright County

The initial call will be received in the Sheriff's dispatch office of the Wright County Government Center. The Wright County Government Center and the County EOC are located at 10 NW 2nd Street, Buffalo MN.

Initial calls to activate EOC staff will begin in the dispatch office. Wright County will fully activate their EOC. A Wright County PIO Liaison will be pre-positioned in the SEOC during plume phase.

Sufficient 24-hour staffing capability of key personal will be presented at the exercise entrance meeting on November 5.

Recommendations from the State Operations Chief/Regional Program Coordinator will be communicated and coordinated with the County Operations Chief via telephone.

FEMA NOTE: In accordance with the Wright County Emergency Response Plan the emergency organization title and role of Operations Chief is assumed by the Wright County Nuclear Director. Evaluators are asked to use the title Wright County Operations Chief as appropriate in reports when reporting on observations of the Wright County Nuclear Director when he or she performing in the role Wright County Operations Chief.

SUB-ELEMENT 1.b - Facilities

Criterion 1.b.1: Facilities are sufficient to support the emergency response.

State of Minnesota, Sherburne County, Wright County

This criterion is not evaluated by FEMA since there were no major changes to facilities.

SUB-ELEMENT 1.c - Direction and Control

Criterion 1.c.1: Key personnel with leadership roles for the ORO provide direction and control to that part of the overall response effort for which they are responsible.

State of Minnesota

The SEOC State Incident Manager (SIM) and Sherburne County Emergency Services Director and Wright County Nuclear Director (county Operations Chiefs) will coordinate decisions and emergency activities.

FEMA NOTE: In accordance with the County Plans the emergency organization title and role of Operations Chief is assumed in Sherburne County by the Sherburne County Emergency Services Director and in Wright County by the Wright County Nuclear Director.

The State RAD Teams will receive their direction from the State RAD Team Captain (located in the Command Van).

Sherburne County

The Sherburne County Emergency Services Director (county Operations Chief) will provide direction and control including coordinating emergency activities. Activities will be coordinated with the state, Wright County EOC, and field staff as necessary.

FEMA NOTE: In accordance with the Sherburne County Emergency Response Plan the emergency organization title and role of Operations Chief is assumed by the Sherburne County Emergency Services Director. Evaluators are asked to use the title Sherburne County Operations Chief as appropriate in reports when reporting on observations of the Emergency Services Director when she or he is performing in the role of Sherburne County Operations Chief.

Wright County

The Wright County Nuclear Director (county Operations Chief) will coordinate decisions and emergency activities. Activities will be coordinated with the state, Sherburne County EOC, and field staff as necessary.

FEMA NOTE: In accordance with the Wright County Emergency Response Plan the emergency organization title and role of Operations Chief is assumed by the Wright County Nuclear Director. Evaluators are asked to use the title Wright County Operations Chief as appropriate in reports when reporting on observations of the Wright County Nuclear Director when he or she performing in the role Wright County Operations Chief.

SUB-ELEMENT 1.d - Communications Equipment

Criterion 1.d.1: At least two communication systems are available, at least one operates properly, and communication links are established and maintained with appropriate locations. Communications capabilities are managed in support of emergency operations.

State of Minnesota

The state will demonstrate the primary means of communication between counties, the State RAD Teams and the Monticello Nuclear Generating Plant The state will also demonstrate one additional (either secondary, tertiary or alternative) means of communication.

Line of Communication	Primary	Secondary	Tertiary	Alternative
SEOC to County EOC	Dedicated telephone line (NMC provided)	Commercial telephone/FAX machine	Satellite telephone	State Law Enforcement Radio
SEOC to Monticello and Prairie Island Nuclear Generating Plants	Auto-Ring (dedicated) Hotline: SEOC to Technical Support Center (TSC) and EOF	Commercial telephone/ FAX machine	800 MHz Utility Frequency radio	
SEOC to Federal Response Organizations (FEMA, NRC, DOE, and Corps of Engineers)	Commercial telephone/FAX machine	Satellite telephone	National Warning System (NAWAS)	VHF Radio
SEOC to State RAD Teams	Commercial telephone	Satellite telephone	800 MHz ARMER Radio	State Law Enforcement Radio

Line of Communication	Primary	Secondary	Tertiary	Alternative
BCA Operations Center to Risk County EOC/Dispatcher.	Commercial telephone/FAX machine	State Law Enforcement Radio VHF/800MHz ARMER Radio	Satellite telephone	
BCA Communications Center to: Monticello	Commercial telephone/ FAX machine	800 MHz Utility Frequency radio	Satellite telephone	

Line of Communication	Primary	Secondary	Tertiary	Alternative
NGP Prairie Island Nuclear NGP	Dedicated Phone link	800 MHz Utility Frequency radio	Satellite telephone	
BCA Communications Center to SEOC	Commercial telephone/FAX Machine	National Warning System (NAWAS)	800 MHz ARMER Radio (DO Talk Group)	

Sherburne County

The Sherburne County EOC's primary communication links are dedicated telephone lines to the SEOC, Wright County, and the Monticello Nuclear Generating Plant.

The first back-up communication method is commercial telephone. Facsimile machines provide hard copy capability.

Minnesota Statewide Emergency Frequency (MNSEF) radio and 800 MHz ARMER radio on talk group PTAC-4 provides secondary back up. Sherburne County EOC staff will demonstrate functionality of the primary and back up methods of communication.

Wright County

The Wright County EOC's primary communication links are dedicated telephone lines to the SEOC, Sherburne County, and the Monticello Nuclear Generating Plant.

The first back-up communication method is commercial telephone. Facsimile machines provide hard copy capability.

Minnesota Statewide Emergency Frequency (MNSEF) radio and 800 MHz ARMER radio on talk group PTAC-4 provides secondary back up. Wright County EOC staff will demonstrate functionality of the primary and back up methods of communication.

SUB-ELEMENT 1.e - Equipment and Supplies to Support Operations

Criterion 1.e.1: Equipment, maps, displays, dosimetry, potassium iodide (KI), and other supplies are sufficient to support emergency operations.

State of Minnesota

Equipment, Maps and Displays:

The state will demonstrate the use of equipment, maps, and displays at the SEOC, JIC, and Command Van as necessary to support emergency operations.

Dosimetry:

Emergency workers will use pocket dosimeters and TLDs and control exposure as follows:

Emergency Worker	Dosimeter Range			Pick-up Location
State RAD Teams	0-200 mR	0-20 R	TLD	Maple Grove Fire Station #2 and Plymouth Fire Station #1
DNR Field Teams	0-200 mR		TLD	Command Van
MDA Field Teams	0-200 mR		TLD	MDA ECC
State Patrol Helicopter Crew (alert and notification)		0-20 R	TLD	Sherburne County EOC, weather permitting
Ambulance crew (Doesn't take KI)	0-200mR		TLD	Reception Center
Reception Center Staff-Stations (Doesn't take KI)	0-200 mR		TLD	Reception Center

Potassium Iodide (KI):

Packets of KI are a part of the State RAD Teams response kits. State RAD Team members will simulate taking KI when directed by the State RAD Team Captain. The shelf life of Minnesota's current supply of KI for emergency workers expires in February 2008.

Per the State of Minnesota Emergency Operations Plan, emergency workers located at the reception center do not take KI, however emergency workers placing barricades, manning traffic control points or performing route alerting do.

Equipment Maintenance:

All routine equipment checks and maintenance is reported in the Annual Letter of Certification. A copy of the up to date PR-1 database showing equipment calibration and inventory dates will delivered to the pre-exercise meeting on November 5. Calibration records are available for

inspection at facilities where the equipment is issued. All radiation monitoring equipment will be operationally checked prior to use.

Traffic Control Points

Traffic control equipment is permanently deployed for use at the designated Trunk Highway Traffic Control Points (TCP) in the area surrounding the Monticello Nuclear Generating Plant. The equipment is to be used to close access into the 10 mile Emergency Planning Zone (EPZ) in conjunction with State Patrol staffing. The equipment is deployed at the request of the SEOC and coordinated with the county. Minnesota Department of Transportation personnel will set up the barricades and has additional daily use equipment deployed throughout the districts to supplement as needed.

The barricades are deployed as follows:

Truck Station	Location	# of Barricades
Maintenance Area 3B HQ/St. Cloud Sub-Area	3725 12th Street North St. Cloud, MN 56303	12
Buffalo Truck Station/Lake Sub-Area	1137 Highway 25 SE Buffalo MN 55313	4
Monticello Truck Station/Lake Sub-Area	112 Chelsea Road Monticello, MN 55362	8
Elk River Truck Station/Elk River Sub-Area	18938 Dodge Ave NW Elk River, MN 55330	19

Sherburne County

Equipment, Maps and Displays:
Sherburne County will demonstrate the use of equipment, maps, and displays at the Sherburne County EOC as necessary to support emergency operations.

Dosimetry:

All county emergency workers will wear pocket dosimeters and TLDs to monitor and control exposure as follows:

Emergency Worker	Dosimeter Range			Pick-up Location
Emergency Workers (Mn/DOT, State Patrol, Deputies performing route alerting, staffing traffic control points, etc.)		0-20 R	TLD	Sherburne Co. EOC Wright Co. EOC
Responders at the Emergency Worker Decontamination Facility	0-200 mR		TLD	Zimmerman Fire Station

Potassium Iodide (KI):
KI for emergency workers is stored at the Sherburne County EOC in the Emergency Preparedness Coordinators office/EOC. The shelf life of Minnesota's current supply of KI for emergency workers expires in February 2008.

FEMA NOTE: The position Title "Emergency Preparedness Coordinator," as seen above is synonymous with the title "Emergency Preparedness Services Director" The Evaluation Team will be asked to use the title "Emergency Preparedness Directors" consistently in their reports.

Equipment Maintenance:
All routine equipment checks and maintenance have been reported in the Annual Letter of Certification. Calibration of radiological detection equipment will be reviewed on November 5 by FEMA. All radiation monitoring equipment will be operationally checked prior to use.

Wright County

Equipment, Maps and Displays:

Wright County will demonstrate the use of equipment, maps, and displays at the Wright County EOC as necessary to support emergency operations. All county decontamination equipment is stored at the Rockford Fire Department, except the survey meters and dosimetry that are stored in the Wright County EOC.

Dosimetry:

Wright County Emergency Workers will use pocket dosimeters and TLDs and control exposure as follows:

Emergency Worker	Dosimeter Range			Pick-up Location
Emergency Workers (Mn/DOT, State Patrol, Deputies performing route alerting, staffing traffic control points, etc.)		0-20 R	TLD	Wright Co. EOC
Responders at the Emergency Worker Decontamination Facility	0-200 mR		TLD	Rockford FD

Potassium Iodide (KI):

KI for emergency workers is stored at the County EOC. The shelf life of Minnesota's current supply of KI for emergency workers expires in February 2008.

Equipment Maintenance:

All routine equipment checks and maintenance is reported in the Annual Letter of Certification. Calibration of radiological detection equipment will be reviewed on November 5 by FEMA. All radiation monitoring equipment will be operationally checked prior to use.

EVALUATION AREA 2 - PROTECTIVE ACTION DECISION-MAKING

SUB-ELEMENT 2.a – Emergency Worker Exposure Control

Criterion 2.a.1: OROs use a decision-making process, considering relevant factors and appropriate coordination, to ensure that an exposure control system, including the use of KI, is in place for emergency workers including provisions to authorize radiation exposure in excess of administrative limits or protective action guides.

State of Minnesota

All emergency workers entering the Emergency Planning Zone (State RAD Team, State Patrol and MnDOT) have a dose limit of 3 Rem with a turn back limit of 1 R as read on a DRD. The only limit that applies to emergency workers outside of the EPZ (Reception Centers) is the dose limit of 3 Rem. State RAD Teams have an additional withdraw limit of 100 mR/hr. The Planning

Chief may authorize a radiation exposure to emergency workers in excess of the administrative limits in accordance with standard operating guidelines.

Self-administration of KI by Emergency Workers in the EPZ is pre-approved by the State Medical Officer. The Planning Chief will recommend to the State Incident Manager (SIM) and the Operations Chief that field operations staff take KI (simulated) when conditions outlined in procedure call for the use of KI. KI for State RAD Team members is included in sampling kits. State Patrol and MnDOT personnel receive KI with dosimetry at county EOCs per procedure. State emergency workers that will simulate KI administration are:

- State Patrol Helicopter crew, weather permitting (helicopter crew-alerting the public, if in the air)
- State RAD Team members (field monitoring and sampling)
- State Patrol and MnDOT (traffic control points)

Emergency workers outside of the EPZ (reception center, hospital and ambulance personnel) have a dose limit of 3 Rem with no turn back limit and are not issued KI.

Sherburne and Wright Counties

All emergency workers entering the Emergency Planning Zone have a dose limit of 3 Rem with a turn back limit of 1 R as read on a DRD. These responders are given dosimetry and KI per procedure. The Sherburne and Wright County Radiological Officers instruct county emergency workers in the EPZ to take KI after the recommendation is made by the SEOC (Planning and Assessment Center). Emergency workers outside of the EPZ (Emergency Worker Decontamination Centers) have a dose limit of 3 Rem with no turn back limit and are not issued KI.

The County Radiological Officer, after authorization from the Planning Chief in the SEOC, can allow radiation exposures of county emergency workers in excess of the administrative limit. If a dose extension is not demonstrated through the scenario, the County Radiological Officer will discuss with the evaluator their knowledge of the dose extension procedures/guidelines.

SUB-ELEMENT 2.b – Radiological Assessment and Protective Action Recommendations and Decisions for the Plume Phase of the Emergency

Criterion 2.b.1: Appropriate protective action recommendations are based on available information on plant conditions, field monitoring data, and licensee and ORO dose projections, as well as knowledge of onsite and offsite environmental conditions.

State of Minnesota

The Planning Chief will evaluate the Monticello Nuclear Generating Plant information and complete independent dose projections based on the information and simulated field-monitoring data provided by the State RAD Team Captain, via telephone from the Command Van. The

Planning Chief will make an evaluation of the data and develop a Protective Action Decision (PAD) for approval by the Governor or Governor's Authorized Representative (GAR).

Sherburne and Wright Counties

The counties will not demonstrate this criterion.

Criterion 2.b.2: A decision-making process involving consideration of appropriate factors and necessary coordination is used to make protective action decisions (PADs) for the general public (including the recommendation for the use of KI, if ORO policy).

State of Minnesota

The Governor or Governor's Authorized Representative (GAR) will demonstrate the ability to make appropriate protective action decisions based on recommendation from the State Incident Manager and the Planning Chief. Decision-making for incidents at the Monticello Nuclear Generating Plant is the responsibility of the Governor or GAR as outlined in state statute.

Self-administration of KI by the public is pre-approved by the State Medical Officer to start when evacuation or sheltering in place is approved.

Sherburne and Wright Counties

Sherburne and Wright counties participate in the protective action decision process in accordance with the state's PAD process. This includes concurrence and coordination between the SEOC and Sherburne and Wright counties.

SUB-ELEMENT 2.c – Protective Action Decision Consideration for the Protection of Special Populations

Criterion 2.c.1: Protective action decisions are made, as appropriate, for special population groups.

State of Minnesota

It is the responsibility of the counties to make protective actions for special populations; the state of Minnesota is responsible for establishing facilities and providing resources such as reception centers and relocation centers to be made available for the special population groups. Resources will be discussed with the evaluator.

Sherburne and Wright Counties

Staff at the Sherburne County and Wright County EOCs will demonstrate this criterion according to their guidelines. Counties are responsible for initiating and the notification for evacuation, and identifying needed transportation for special population groups. Resources will be discussed with the evaluator.

SUB-ELEMENT 2.d – Radiological Assessment and Decision-Making for the Ingestion Exposure Pathway

Criterion 2.d.1: Radiological consequences for the ingestion pathway are assessed and appropriate protective action decisions are made based on the ORO planning criteria.

State of Minnesota

This criterion is not selected for evaluation.

Sherburne County

This criterion is not selected for evaluation.

Wright County

This criterion is not selected for evaluation.

Ingestion Counties

This criterion is not selected for evaluation.

SUB-ELEMENT 2.e – Radiological Assessment and Decision-Making Concerning Relocation, Re-entry, and Return

Criterion 2.e.1: Timely relocation, re-entry, and return decisions are made and coordinated as appropriate, based on assessments of radiological conditions and criteria in the ORO's plan and/or procedures.

State of Minnesota

This criterion is not selected for evaluation.

Sherburne County

This Criterion is not selected for evaluation.

Wright County

This criteria is not selected for evaluation

Ingestion Counties

This criterion is not selected for evaluation.

EVALUATION AREA 3 - PROTECTIVE ACTION IMPLEMENTATION

SUB-ELEMENT 3.a – Implementation of Emergency Worker Exposure Control

Criterion 3.a.1: The OROs issues appropriate dosimetry and procedures, and manages radiological exposure to emergency workers in accordance with the plan and procedures. Emergency workers periodically and at the end of each mission read their dosimeters and record the readings on the appropriate exposure record or chart.

State of Minnesota

All emergency workers that are issued dosimetry will demonstrate appropriate use of that dosimetry and record keeping in accordance with their established procedures/guidelines. State RAD Team, reception center, hospital and ambulance personnel will be briefed on radiation protection prior to deployment per procedure. The briefing to the ambulance crew participating in the MS-1 evaluation will be simulated as though they are being deployed from a reception center. State Patrol and MnDOT report to the county EOCs where they are briefed and receive dosimetry and KI. The emergency workers will demonstrate their knowledge of the turn-back dose rate and administrative limits as dictated by the scenario or by interview.

FEMA NOTE: Minnesota State Patrol Officer(s) (MSP) assigned to TACP duty should participate in the radiological briefing. MSP will be taking their Radiological Briefing in the Sherburne County EOC.

Sherburne County

The Sherburne and Wright County Radiological Officers brief responders who will be entering the EPZ dispatched from the county EOC. All emergency workers that are issued dosimetry will demonstrate appropriate use of that dosimetry and record keeping in accordance with their established procedures/guidelines.

As driven by the scenario, field personnel (i.e. Sheriff's Deputies, County Public Works staff), will be called in to the EOC (all will be simulated except for 1 deputy) to pick up dosimetry, receive a briefing and their emergency assignment.

FEMA NOTE: Minnesota State Patrol Officer(s) (MSP) assigned to TACP duty should participate in the radiological briefing. MSP will be taking their Radiological Briefing in the Sherburne County EOC. Sherburne County Law Enforcement assigned to TACP duty should participate in the radiological briefing in the Sherburne County EOC.

Wright County

All emergency workers that are issued dosimetry will demonstrate appropriate use of that dosimetry and record keeping in accordance with their established procedures/guidelines.

As driven by the scenario, field personnel (i.e. Sheriff's deputies, County Public Works staff), will be called in to the EOC (all will be simulated except for 1 deputy) to pick up dosimetry, receive a briefing and their emergency assignment.

FEMA NOTE Wright County Law Enforcement assigned to TACP duty should participate in the radiological briefing in the Wright County EOC.

SUB-ELEMENT 3.b – Implementation of KI Decision

Criterion 3.b.1: KI and appropriate instructions are made available should a decision to recommend use of KI be made. Appropriate record keeping of the administration of KI for emergency workers and institutionalized individuals (not the general public) is maintained.

State of Minnesota

All emergency workers that are directed to take KI will demonstrate the availability of KI, appropriate instructions, and record keeping in accordance with their procedures/guidelines.

The public will be notified by EAS message and special news bulletins to take KI if they have it in their possession when evacuation or sheltering in place is approved.

FEMA NOTE: the following KI information has been relocated here from the 3.c.2., criterion:

Potassium Iodide (KI)
KI for public use is pre-approved at the General Emergency ECL for affected sub areas. Primary notification to school superintendents of a General Emergency is done by the county EOCs. Backup notification is performed by the Minnesota Department of Education from the SEOC. The affected schools are limited to the schools that remain occupied, sheltered-in-place or in transit within the sub-areas stated in the Protective Action Decision. KI administration will not delay evacuation.

Sherburne and Wright Counties

All emergency workers that are directed to take KI will demonstrate the availability of KI, appropriate instructions, and record keeping in accordance with their procedures/guidelines. KI administration instructions to county emergency workers disseminate from the Sherburne County and Wright County EOC. The evaluator will discuss KI administration with the deputy sheriff of Wright County while demonstrating traffic control and the deputy sheriff of Sherburne County while simulating traffic control. KI ingestion will be simulated.

Demonstration of KI to the public is not the responsibility of Sherburne and Wright County.

FEMA NOTE: the following KI information has been relocated here from the 3.c.2., criterion:

Potassium Iodide (KI)
The method for notifying school superintendents of the General Emergency is similar to the county school evacuation plan. The affected schools are limited to the schools that remain occupied, sheltered-in-place or in transit within the sub-areas stated in the Protective Action Decision. Tracking of KI use is done by the school superintendents, and can be evaluated in the County EOC's.

SUB-ELEMENT 3.c – Implementation of Protective Actions for Special Populations

Criterion 3.c.1: Protective action decisions are implemented for special populations other than schools within areas subject to protective actions.

State of Minnesota

This is a county responsibility and will not be demonstrated by the state.

Sherburne County

Sherburne County will demonstrate this criterion by an interview process between EOC staff and FEMA evaluators. It is the intent of Sherburne County to evacuate all special populations at the GENERAL EMERGENCY ECL. All special population calls will be simulated and contacts logged. Sherburne County's one transportation provider (Elk River Fire) will be contacted.

Wright County

Wright County will demonstrate this criterion by an interview process between EOC staff and FEMA evaluators. It is the intent of the Wright County to evacuate all special populations at the GENERAL EMERGENCY ECL. All special population calls will be simulated and contacts logged. One of each type of transportation provider will be contacted. The three types of transportation providers are (ambulance, handicap lift van provider, contracted bus service).

Criterion 3.c.2: OROs/School officials decide upon and implement protective actions for schools.

State of Minnesota

Evacuation

Evacuation of schools is a pre-determined protective action for all schools in the EPZ and is initiated at a Site Area Emergency ECL. This action is a county and school district responsibility and will not be demonstrated by the state during the exercise. Information about reporting back the status of school evacuation may be observed at the SEOC.

Sherburne County

Evacuation
Evacuation will be demonstrated per county plan. Notifications start at the Alert ECL.

EV-2
The EV-2 criterion is not selected for this exercise.

FEMA NOTE: The Sherburne County demonstration under 3.c.2 is limited to EOC level activities, and no actual evacuation will be performed. No EV-2 is to be conducted during this exercise for Sherburne County Schools.

Wright County

Evacuation
Evacuation will be demonstrated per county plan. Notifications start at the Alert ECL.

FEMA NOTE: The Wright County demonstration under 3.c.2 is limited to EOC level activities because the EV-2 demonstrations are being conducted out-of-sequence with the exercise. Actual school evacuation is being demonstrated out-of-sequence, at the Monticello School District ONLY.

EV-2
Monticello School District, Maple Lake School District and St. Michael-Albertville School District will demonstrate plans and procedures.

Monticello School District will perform a functional EV-2 exercise on November 5, 2007, beginning at 0900 hours, to demonstrate the evacuation procedures and sister/host school agreements through the boarding of students on school busses. The school district will demonstrate steps beginning with notification through loading students on busses at the Monticello Middle School. Monticello's sister/host school agreement is with Osseo-Maple Grove School District for evacuation to Maple Grove High School. Osseo-Maple Grove will be contacted by phone as part of the exercise.

Discussion/Interview portion of the demonstration will begin with FEMA evaluators on November 5, 2007 at 0900 hours, at the Monticello Middle School, at 800 East Broadway Street, Monticello, Minnesota. Necessary school and transportation officials should include but not limited to: the superintendent, one principal, one teacher, one nurse, one transportation provider, one bus driver and host school superintendent/or principal.

FEMA NOTE: The term FUNCTIONAL EV-2 EXERCISE means that the school staff and students will demonstrate evacuation. This will include calling and staging buses, students leaving the class rooms, and boarding the buses. As indicated above, the Interview portion of the EV-2 will begin at 0900 hours on November 5, 2007, at the Monticello Middle School and should be completed prior to the evacuation portion of the demonstration which is to begin at approximately 1000 hours.

The Maple Lake School District EV-2 is scheduled for November 7, 2007 at 0900 hours, at 200 State Highway 55 East, Maple Lake, Minnesota. Maple Lake's agreement is with Dassel-Cokato Rockford School District for evacuation to Dassel Cokato High School/Middle School. Evaluation will be through interview of the necessary school and transportation officials that should include but

not limited to: the superintendent, one principal, one teacher, one nurse, one transportation provider, one bus driver and host school superintendent/or principal.

The St. Michael - Albertville School District EV-2 is scheduled for November 5, 2007 at 1530 hours, at 5255 Jensen Avenue, Albertville, Minnesota. St. Michael-Albertville's plan is to evacuate the elementary school located within the EPZ to their middle school located outside of the EPZ. Evaluation will be through interview of the necessary school and transportation officials that should include but not limited to: the superintendent, one principal, one teacher, one nurse, one transportation provider, one bus driver and host school superintendent/or principal.

FEMA NOTE: The St. Michael - Albertville School District EV-2 scheduled for November 5, 2007 at 1530 hours, includes simulated (by interview) evacuation of the elementary school located within the EPZ to their middle school located outside of the EPZ. NOTE: The transportation portion of the EV-2 interview will not be completed during the November 5, 2007 interview. The transportation portion of the EV-2 interview will be completed at the St. Michael - Albertville School District EV-2 on Wednesday November 7, 2007 at 1400 hours, at 5255 Jensen Avenue, Albertville, Minnesota, with the Fieldstone School Principal, a Transportation Supervisor and a Bus Driver participating.

Preschools and daycares are not considered schools, but are notified by county human services agencies at the ALERT ECL.

SUB-ELEMENT 3.d – Implementation of Traffic and Access Control

Criterion 3.d.1: Appropriate traffic and access control is established. Accurate instructions are provided to traffic and access control personnel.

State of Minnesota

According to procedures the SEOC will notify air, rail, or waterway transportation according to procedures/guidelines if issues arise.

During the ALERT, MN/DOT and Minnesota State Patrol at the SEOC will assist with identification of traffic and access control points necessary to implement recommended protective actions related to evacuation, relocation and re-entry of public to restricted areas.

The Minnesota Department of Transportation will demonstrate the dropping off of a barricade to a conveniently located, pre-determined roadblock location in Sherburne County. The State Patrol will demonstrate traffic control at the roadblock as coordinated through the SEOC and according to procedures. An evaluator will ride to the roadblock location with Minnesota Department of Transportation workers and conduct a procedural interview with both the Minnesota Department of Transportation workers and with the Minnesota State Patrol.

Sherburne County

The Sherburne County EOC staff will select, establish, and coordinate staffing of traffic and access control points consistent with the protective action decisions for evacuation, relocation or re-entry to restricted areas. This criterion will be demonstrated by simulation and staff interview.

A deputy and public works employee will simulate proceeding to a conveniently located, pre-determined roadblock location. No barricade will actually be placed on the roadside. An evaluator will conduct a procedural interview outside of the EOC in the parking lot.

Wright County

The Wright County EOC staff will select, establish, and coordinate staffing of traffic and access control points consistent with the protective action decisions for evacuation, relocation or re-entry to restricted areas. This criterion will be demonstrated by simulation and staff interview.

A deputy and public works employee will simulate proceeding to a conveniently located, pre-determined roadblock location. No barricade will actually be placed on the roadside. An evaluator will conduct a procedural interview outside of the EOC in the parking lot.

Criterion 3.d.2: Impediments to evacuation are identified and resolved.

State of Minnesota

A controller message will be used to create a simulated evacuation impediment in each county. The State will demonstrate communication and coordination with counties on evacuation reroutes or impediment removal. Actual deployment of assets will be simulated, but all actual or simulated contacts made should be logged.

Sherburne County, Wright County

A controller message(s) will be used to create a simulated evacuation impediment. Each county will demonstrate appropriate corrective actions. Actual deployment of assets will be simulated, but all actual or simulated contacts made should be logged.

SUB-ELEMENT 3.e – Implementation of Ingestion Pathway Decisions

Criterion 3.e.1: The ORO demonstrates the availability and appropriate use of adequate information regarding water, food supplies, milk and agricultural production within the ingestion exposure pathway emergency planning zone for implementation of protective actions.

State of Minnesota

This Criterion was not selected for this exercise.

Sherburne County

This Criterion was not selected for this exercise.

Wright County

This Criterion was not selected for this exercise.

Criterion 3.e.2: Appropriate measures, strategies, and pre-printed instructional material are developed for implementing protective action decisions for contaminated water, food products, milk, and agricultural production.

State of Minnesota

This Criterion was not selected for this exercise.

Sherburne County

This Criterion was not selected for this exercise.

Wright County

This Criterion was not selected for this exercise.

SUB-ELEMENT 3.f – Implementation of Relocation, Re-entry, and Return Decisions

Criterion 3.f.1: Decisions regarding controlled re-entry of emergency workers and relocation and return of the public are coordinated with appropriate organizations and implemented.

State of Minnesota

This Criterion was not selected for this exercise.

Sherburne County

This Criterion was not selected for this exercise.

Wright County

This Criterion was not selected for this exercise.

EVALUATION AREA 4 - FIELD MEASUREMENT AND ANALYSIS

SUB-ELEMENT 4.a – Plume Phase Field Measurement and Analyses

Criterion 4.a.1: The field teams are equipped to perform field measurements of direct radiation exposure (cloud and ground shine) and to sample airborne radioiodine and particulates.

State of Minnesota

Two State RAD Teams, equipped with the necessary supplies and instrumentation, will demonstrate this criterion. The CDV-718A equipped with beta-gamma probe (0-999 R/hr) and pancake probe (0-500,000 CPM) are used for determining field radiation measurements. They will be operationally checked prior to deployment from the Maple Grove Fire Station #2.

Airborne sampling will be demonstrated by the State RAD Teams in the field using RADECO air samplers to obtain at least a ten minute or approximately ten cubic foot air sample. The air samplers will be operationally checked, by procedure/guideline, prior to deployment from the Maple Grove Fire Station #2.

State RAD Team members will conduct gross particulate and iodine field analysis using the CDV-718A equipped with pancake probe (0-500,000 CPM) in accordance with their standard operating procedures/guidelines.

Sherburne County, Wright County

This is a state function and will not be demonstrated by the counties.

Criterion 4.a.2: Field teams are managed to obtain sufficient information to help characterize the release and to control radiation exposure.

State of Minnesota

The State RAD Team Captain, operating from the Command Van will manage the activities of the two State RAD Teams including giving the teams a pre-deployment briefing. The State RAD Teams will perform field measurements to characterize the plume in accordance with their procedures/guidelines. The Command Van Controller will provide data from one phantom team. The Monticello Nuclear Generating Plant is responsible for obtaining "peak" plume airborne measurements.

Sherburne County, Wright County

This is a state function and will not be demonstrated by the counties.

Criterion 4.a.3: Ambient radiation measurements are made and recorded at appropriate locations, and radioiodine and particulate samples are collected. Teams will move to an appropriate low background location to determine whether any significant (as specified in the plan and/or procedures) amount of radioactivity has been collected on the sampling media.

State of Minnesota

The State RAD Teams will demonstrate this criterion and perform ambient radiation measurements in accordance with their procedure/guideline. Airborne sampling will be demonstrated by the State RAD Teams in the field using air samplers to obtain at least a representative air sample. The State RAD Team members will conduct gross particulate and iodine field analysis. Purging the sampler head is not a part of State RAD Team's procedures/guidelines.

Field measurement data will be communicated to the Command Van and then relayed to the PAC. Plume phase samples will be packaged for transport by the State RAD Teams. Chain of custody will be documented on sample forms.

Sherburne County, Wright County

This is a state function and will not be demonstrated by the counties.

SUB-ELEMENT 4.b – Post Plume Phase Field Measurements and Sampling

Criterion 4.b.1: The field teams demonstrate the capability to make appropriate measurements and to collect appropriate samples (e.g., food crops, milk, water, vegetation, and soil) to support adequate assessments and protective action decision-making.

State of Minnesota

This criterion was not selected for this exercise.

Sherburne County, Wright County

This is a state function and will not be demonstrated by the counties.

SUB-ELEMENT 4.c – Laboratory Operations

Criterion 4.c.1: The laboratory is capable of performing required radiological analyses to support protective action decisions.

State of Minnesota

This criterion was not selected for this exercise.

Sherburne County, Wright County

This is a state function and will not be demonstrated by the counties.

EVALUATION AREA 5 – EMERGENCY NOTIFICATION AND PUBLIC INFORMATION

SUB-ELEMENT AREA 5.a – Activation of the Prompt Alert and Notification System

Criterion 5.a.1: Activities associated with primary alerting and notification of the public are completed in a timely manner following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. The initial instructional message to the public must include as a minimum the elements required by current FEMA REP guidance.

State of Minnesota

The development and dissemination of an Emergency Alert System (EAS) message will be demonstrated in the SEOC. EAS is activated only when there is a protective action (i.e., evacuation or sheltering) for people. The State EAS plan states that the code for a nuclear generating plant incident is monitored by all relay stations and is set to automatically transmit the message from the State EOC. The initial EAS message is determined by the Planning Chief in coordination and concurrence with Wright County and Sherburne County following the approval of a Protective Action Decision (PAD) by the State Incident Manager (SIM) or the Governor or Governor's Authorized Representative (GAR). The first PAD is pre-approved and does not require the Governor's approval, only the SIM's approval. All subsequent PADs require the Governor's or GAR's approval.

The SEOC Communications Operator (located in the SEOC) will directly broadcast by radio transmission an EAS message using an encoder/decoder, which is automatically monitored by encoders/decoders by major relay stations. In addition, the EAS Writer has the capability to send a message directly over NOAA weather alert radios and weather utilizing a link to the National Weather Service headquarters in Chanhassen, Minnesota. EAS messages will contain basic information regarding the event. Additional information will be disseminated through the JIC using special news bulletins and media releases.

As part of the PAD approval process, after approval by the SIM and concurrence from Sherburne and Wright Counties via a conference call, the counties will then activate sirens. The actual time of the siren and EAS activation are determined by the SIM and coordinated with Sherburne and Wright Counties.

Weather permitting, a State Patrol helicopter, equipped with a public address system, will warn recreational area recreationalists. The State patrol helicopter will operate from Sherburne County Law Enforcement Center located at 13880 Highway 10, Elk River, MN.

Activation of sirens, weather radios, and the broadcast of media messages will be simulated.

Sherburne County, Wright County

All EAS messages are developed and disseminated by the SEOC. After each PAR becomes a PAD, sirens are sounded once. Wright County has the lead for siren activation coordination with Sherburne County. The coordination of alert and notification implementation will be demonstrated in the Sherburne and Wright County EOCs (siren activation will be simulated).

Criterion 5.a.2: [RESERVED]

Criterion 5.a.3: Activities associated with FEMA approved exception areas (where applicable) are completed within 45 minutes following the initial decision by authorized offsite emergency officials to notify the public of an emergency situation. Backup alert and notification of the public is completed within 45 minutes following the detection by the ORO of a failure of the primary alert and notification system.

State of Minnesota

This criterion is the responsibility of the counties and will not be demonstrated by the state.

Sherburne County

Sherburne County has 100% siren coverage within the 10-mile EPZ and is not demonstrating route alerting.

Backup alert and notification:

This criterion will not be demonstrated. There will be no controller injects about siren failure.

Wright County

Wright County has 100% siren coverage within the 10-mile EPZ and is not demonstrating route alerting.

Backup alert and notification:

This criterion will not be demonstrated. There will be no controller injects about siren failure.

SUB-ELEMENT 5.b – Emergency Information and Instructions for the Public and the Media

Criterion 5.b.1: OROs provide accurate emergency information and instructions to the public and the news media in a timely manner.

State of Minnesota

After the SIM has approval of the PAD from the GAR, pre-scripted EAS messages communicating emergency information and instructions are released to the public. The State of Minnesota uses pre-scripted EAS messages. Initiating release of pre-scripted EAS messages is the responsibility of SEOC Planning Chief. Special news bulletins will be pre-scripted as often as possible and coordinated with all applicable agencies. The public will be told to remain tuned to their radio and television stations for further information. Special news bulletins will be announced in the JIC media briefing room.

Several organizations PIOs, lead by the Lead PIO, will work together in the JIC work area (located in the SEOC). They will determine what information is released to the general public. Media briefings will be demonstrated in the media briefing room during the plume phase.

PIOs will simulate sending new advisories and releases out electronically and will log what media and interested party lists the releases and advisories were sent to. A list of the media organizations will be provided to the evaluator. The Lead PIO, with the assistance of the Assistant Lead PIO will coordinate all information released to the media.

An Information (public inquiry) Hotline will be operated from the SEOC. A controller using pre-scripted controller messages will make incoming calls. Information Hotline staff will answer phones and communicate any rumor trends to the Operations Chief or Asst. Operations Chief for action. Televisions and VCRs (used to monitor and tape media broadcasts) are located in the Information Hotline and PIO work areas. For the exercise the televisions will be turned on, and VCRs will not.

Sherburne County

Emergency information released to the public and the news media are the responsibility of the SEOC and the JIC. The Sherburne County Public Information Officer (PIO) Liaison, located in the SEOC, in accordance with JIC activities, will demonstrate the coordination of Sherburne County public information. The Sherburne County PIO Liaison will be pre-positioned in the SEOC and will wait an appropriate amount of time before interacting with other responders.

Sherburne County will not be demonstrating any local briefings.

Wright County

Emergency information released to the public and the news media are responsibility of the SEOC and the JIC. The Wright County Public Information Officer (PIO) Liaison, located in the SEOC, in accordance with JIC activities, will demonstrate the coordination of Wright County public information. The Wright County PIO Liaison will be pre-positioned in the SEOC and will wait an appropriate amount of time before interacting with other responders.

Wright County will not be demonstrating any local briefings.

EVALUATION AREA 6 – SUPPORT OPERATION/FACILITIES

SUB-ELEMENT 6.a – Monitoring and Decontamination of Evacuees and Emergency Workers and Registration of Evacuees

Criterion 6.a.1: The reception center/emergency worker facility has appropriate space, adequate resources, and trained personnel to provide monitoring, decontamination, and registration of evacuees and/or emergency workers.

State of Minnesota

Evacuee monitoring will be demonstrated at Princeton High School reception center at 807 8th Avenue South, Princeton, MN 55371 at 1900 hours, on Wednesday November 7, 2007. The facility Director of Operations is a Safety Officer from the Minnesota Department of Human Services (DHS). Reception Center volunteer staffs conduct monitoring while DHS staff serves as recorders. At least two vehicles and six evacuees will be monitored to demonstrate the 20% EPZ population monitoring capability in a 12-hour period.

The initial evacuee monitoring stations use both vehicle and personnel portal monitors. The portal monitors are calibrated per manufacturer's recommendation. The Ludlum monitors are calibrated every five years and the Canberra monitors are calibrated annually. Both types are response checked with a check source before each use.

Vehicle or mock evacuees are monitored and possibly decontaminated when a portal monitor alarms. Ludlum Model 3 hand held survey instruments are used by monitoring staff in the decontamination areas. The Ludlum units are calibrated annually and response checked with a check source before each use. At least one vehicle and two mock volunteers will go through the reception center monitoring, decontamination and registration process. At least one male and one female "evacuee" will require decontamination. The decontamination process will be demonstrated by interview with reception center staff. Contamination levels, monitoring and decontamination results will be provided by controllers.

Sherburne County

This criterion was not selected during this exercise.

Wright County

Emergency Worker Monitoring and Decontamination will be demonstrated at the Rockford Emergency Worker Decontamination Center located at 6700 Main Street in Rockford, MN on November 6, 2007 at 1900.

Hand held survey instruments (Ludlum Model 3) will be used by Rockford Emergency Worker Decontamination Center staff to monitor emergency workers. A check source is used to ensure that the instruments respond. Hand held instruments are calibrated annually.

Two emergency workers will go through the Emergency Worker Decontamination monitoring, decontamination and registration process. At least one emergency worker will be required to undergo decontamination. The decontamination process will be demonstrated by interview with Emergency Worker Decontamination Center staff.

Controllers will provide contamination levels and monitoring and decontamination results.

SUB-ELEMENT 6.b – Monitoring and Decontamination of Emergency Worker Equipment

Criterion 6.b.1: The facility/ORO has adequate procedures and resources for the accomplishment of monitoring and decontamination of emergency worker equipment, including vehicles.

State of Minnesota

This is a county responsibility and will not be demonstrated by the state.

Sherburne County

This criterion was not selected for this exercise.

Wright County

Monitoring and decontamination of emergency worker equipment and vehicles will be demonstrated at the Rockford Emergency Worker Decontamination Center located at 6700 Main Street in Rockford, MN on November 6, 2007 at 1900 hours. Two emergency worker vehicles will be monitored, with at least one vehicle requiring decontamination. The vehicle decontamination process will be demonstrated by an interview with the Rockford Emergency Worker Decontamination Center staff.

Controllers will provide contamination levels and monitoring and decontamination results.

SUB-ELEMENT 6.c – Temporary Care of Evacuees

Criterion 6.c.1: Managers of congregate care facilities demonstrate that the centers have resources to provide services and accommodations consistent with American Red Cross planning guidelines (Found in MASS CARE – Preparedness Operations, ARC 3031). Managers demonstrate the procedures to assure that evacuees have been monitored for contamination and have been decontaminated as appropriate prior to entering congregate care facilities.

State of Minnesota

Congregate care will be demonstrated on Wednesday, November 7 at 1900 hours during the reception center demonstration. An American Red Cross shelter manager and nurse will meet the evaluator at the Princeton High School reception center at 807 8th Avenue South, Princeton, MN 55371. They will then go to the selected mass shelter location South Elementary School at 805 8th Avenue South, Princeton, MN 55371 and conduct a walk through of the facility. They will provide lists of supplies, equipment, personnel and logistical information for review. The shelter agreement will be available for review.

Sherburne County, Wright County

This is a state function and will not be demonstrated by the counties.

SUB-ELEMENT 6.d – Transportation and Treatment of Contaminated Injured Individuals

Criterion 6.d.1: The facility/ORO has the appropriate space, adequate resources, and trained personnel to provide transport, monitoring decontamination, and medical services to contaminated injured individuals.

State of Minnesota

Two FEMA evaluators will evaluate the MS-1 to support the scenario. The concern is to ensure that the hospital staff is not waiting for the ambulance monitoring portion of the exercise and to release the ambulance back to duty in a reasonable amount of time.

MS-1 Transportation – Princeton Reception Center

North Ambulance will demonstrate this criterion on Wednesday November 7, 2007 at 0630 hours at Princeton Fairview Northland Regional Hospital parking lot, located at 911 Northland Drive in Princeton, MN 55371. The patient will be simulating a broken leg. A controller will provide the ambulance crew with a simulated contaminated injured evacuee. The ambulance crew will assess the patient's medical condition. The ambulance crew will "cocoon" the patient

but will not monitor the patient. They will then prepare the patient for transport to Fairview Northland Hospital in Princeton, MN. They will load the patient into the ambulance and transport to the Emergency Room via ambulance. Communications between North Ambulance and Fairview Northland Hospital will be demonstrated at this time. Ambulance monitoring will be demonstrated at the Fairview Northland Hospital by appropriate hospital personnel.

MS- 1 Hospital Facility Princeton Fairview Northland Regional Hospital

Princeton Fairview Northland Regional Hospital, located at 911 Northland Drive in Princeton, MN 55371 will demonstrate this criterion on Wednesday, November 7, 2007, immediately following the arrival of the patient. Upon receipt of notification from the State Emergency Operations Center, hospital personnel will prepare the emergency room area for arrival of a contaminated patient, including appropriate contamination control measures. Hospital staff will conduct radiological monitoring. Appropriate equipment and supplies will be available. The setting of priorities between medical treatment and contamination controls will be demonstrated. Samples will be collected from the patient as appropriate and decontamination procedures of that patient will be demonstrated.

FEMA NOTE: The MS-1 is scheduled to commence at 0630 hours at Princeton Fairview Northland Regional Hospital, with the ambulance/transportation demonstration/simulation starting on the hospital campus, but not at the emergency room. The demonstration will include transport of the patient to the hospital emergency room and transfer of the patient from the ambulance to the hospital staff.

Sherburne County, Wright County

This is a state function and will not be demonstrated by the counties.

APPENDIX 4

EXERCISE SCENARIO

This appendix contains a summary of the simulated sequence of events -- Exercise Scenario -- which was used as the basis for invoking emergency response actions by Offsite Response Organizations in the Monticello Nuclear Generating Plant REP Full Participation Plume Exposure Pathway exercise on November 6, 2007.

This exercise scenario was submitted by the State of Minnesota and Excel Energy and approved by FEMA Region V on October 19, 2007.

During the exercise, controllers from the State of Minnesota provided "inject messages," containing system/device/process response/result information based on scenario events and/or relevant data to those persons or locations who request the data and would normally receive the information in an actual event. These inject messages were the method used for responding to actions taken by OROs without leading the demonstration.

MONTICELLO NUCLEAR GENERATING PLANT

REP PLAN EXERCISE

OFF-SITE SUMMARY AND TIME LINE

NOVEMBER 6, 2007

The following is the November 6 Monticello Nuclear Generating Plant drill off-site timeline for the State of Minnesota, Sherburne and Wright Counties. All time intervals are approximate.

Time Interval **Comments**

Tuesday, November 6, 2007

-0700 Initial conditions to start drill are taking place in the Monticello Control Room Simulator.

Winds are from 215 at 6 mph. Temperature is in the mid 30's with noontime temperatures expected in the mid 40's.

~0735 At Monticello NGP: an explosion at the breaker Bus 16 occurs. Fire Brigade reports damage at 0742.

~0805 **Notification of Alert per EAL HA2.1** from Monticello NGP completed. EAL HA2.1 covers a fire or explosion in the plant large enough to cause damage to one or more of the plant safety systems.

1. Call list notifications take place.

2. Emergency Operating Center (EOC) activation (State of Minnesota, Sherburne and Wright Counties) occurs. **(Message 1)**

   - EOC security system initiated
   - Maps, displays set up, messages forms, logs, etc. distributed
   - Communication links established and maintained throughout the exercise.

- Assembled EOC personnel briefed, with additional briefings held periodically throughout the exercise

3. Radiological Accident Deployment (RAD) teams and Team Captain respond to Maple Grove Fire Station #2. From there, they will be dispatched to affected areas. Maple Grove Communications Van mobilized. (**Message 2**).

4. Department of Natural Resources Emergency Coordinating Center (ECC) activated (simulated).

5. Local and state first responders are put on standby.

6. Joint Information Center (JIC) is activated.

- Public Information Officers (PIOs) notified
- JPIC displays and media information kits arranged.
- JIC Security and Moderator report to media briefing room (Public Safety Media Room, 444 Cedar .St, St. Paul)

- Initial JIC Management Team meeting
- Initial news briefing conducted by HSEM Director
- Preparation and issue of Public Information Bulletins and news releases will continue until the termination of the exercise.

7. Planning Chief requests additional radiological assets from the 55th CST through Military Affairs and DOE radiological assets through FRMAC and RAP Teams notified of Alerts.

8. The Planning and Assessment initiates dose assessment (**Message 3**).

~0920 At Monticello NGP: an unidentified leak starts in containment. Containment pressure starts to increase. The operators will likely SCRAM the reactor, however, a High Power Anticipated Transient Without SCRAM (ATWS) will be experience.

~0937 At Monticello NGP: reactor power remains 12% after manual SCRAM. A Site Area Emergency EAL should begin to be classified.

~0942 Notification of **SITE AREA EMERGENCY (EAL Guideline SS2.1)** by Monticello NGP completed.

1. EOC and field staff are notified of the classification upgrade.

   - State EOC, JIC
   - Sherburne and Wright County EOCs
   - RAD Teams (Maple Grove, Plymouth, DNR, and Agriculture)
   - Decontamination Centers

2. Reception Center is activated at Princeton and Roger high schools (simulated).

3. Congregate Care Center is activated (simulated).

4. All at EPZ Schools are evacuated to sister host schools, Big lake to Princeton,, Becker to Zimmerman, Buffalo to Rockford, Monticello to Maple Grove, and Maple Lake to Cokato-Dassel (simulated).

5. MDA and DNR field sampling teams put on standby.

6. DNR closes Lake Maria State Park. Governor advised in incident status. "State of Emergency" recommended by State Incident Manager.

7. Governor advised in incident status. "State of Emergency" recommended by State Incident Manager. "State of Emergency" declared by Governor.

9. Dairy animals placed on covered water and stored feed.

~0955 Interrupt Communications (**Messages 4, 5, 6, 7, 8, 9, 10)**

~1030 Communications restored.

~1030 Travel Impediments (Messages 11, 12, 13, 14)

~1108 **The Emergency Director at Monticello NGP should classify a** GENERAL EMERGENCY per EAL Guideline FG1.1 **based on loss of fission barriers.**

Initial Protective Action Recommendation (PAR)
Meteorology: wind from 282^0 at 6 mph, Stability Class E
Affected sectors: E, F, & G out to 5 miles
Sub-areas: 2, 5E, & 5S

1. EOC and field staff are notified of the classification upgrade.
   - State EOC, JPIC
   - Sherburne and Wright County EOCs
   - RAD Teams
   - Decontamination Centers

2. Minnesota's default protective action recommendation (PAR) (evacuate 2 miles 360° and 5 miles, 5 sectors downwind) will be recommended by the Planning Chief to the State Incident Manager.

3. When PAD is approved, the Public Alert and Notification Systems (PANS) will be implemented. The EAS system will be activated and sirens sounded (simulated). Exception area route alerting (counties) and transient warning (state) will be demonstrated.

4. As PADs are recommended, necessary traffic control points are activated for evacuee traffic flow and to restrict in-coming traffic.

5. RAD teams are in the field monitoring radiation levels and reporting to planning and assessment staff in State EOC.

6. All emergency response organizations fully activated.

7. Media briefings continue until termination.

8. Radiological response support requested from FEMA

~1245 **Monticello NGP MIDAS dose projection indicates a greater than 1 Rem TEDE exposure out to 10 miles should be developed and communicated to the state.**

~1305 **By this time, the Emergency Director at Monticello NGP should recommend a second Protection Action Recommendation per EAL FG1.1**

Meteorology: wind from 283^0 at 5.5 mph, Stability Class E
New Affected sectors: E, F, &G out to 10 miles
Sub-areas: 2, 5E, 5S, & 10SE

1. EOC and field staff are notified.

2. Second PAR is recommended by Planning to State Incident Manager. PAD approval process begins

3. When PAD is approved, the Public Alert and Notification Systems (PANS) will be implemented. The EAS system will be activated and sirens sounded (simulated).

4. A media briefing on the second PAD will take place.

~1400 Plant exercise continues. State and Locals discontinue with exercise, continue disconnect play, or terminate exercise if all objectives are met **(Message 15).**